

# HERITAGE & CITIZENSHIP

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## HERITAGE

The purpose of the 4-H Heritage project is to acquire knowledge, develop a connection to the past and share the story of a 4-H member's heritage and history around them. An exhibit may include items, pictures, maps, charts, recordings, drawings, illustrations, writings or displays that depict the heritage of the member's family or community or 4-H history.

### HERITAGE GUIDELINES

- Exhibits are entered at 4-Hers own risk. The Saunders County Ag Society and the Saunders County Extension will not be responsible for loss or damage to family heirloom items or any items in this division.
- Displays should not be larger than 22 inches x 28 inches wide. If the size needs to be a different size because the historical item is larger than 22 inches x 28 inches, please contact the office for approval. Display collections securely in an attractive container no larger than 22 inches x 28 inches.
- Exhibits must include NAME, COUNTY, AGE & PAST EXPERIENCE (years in Explore Your Heritage, projects) on back of exhibit.
- All entries must have documentation included.

**Scoresheet – (SF71)** found here: <https://go.unl.edu/ne4hheritage>

**Resources:** Learn about the origins of your family or traditions; Find the stories in family photographs; Identify family keepsakes  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/47](https://4hcurriculum.unl.edu/index.php/main/program_project/47)

### DEPT A / DIV 101

#### HERITAGE - Level I / Beginning

Division 101, Level 1: Beginning (1-4 years in project)

- A101001 Heritage Poster or Flat Exhibit: (SF71)** Entries may be pictures, posters, items that depict family heritage. Exhibits must be supported by a written explanation.
- A101002 Family Genealogy/History Notebook: (SF71)** Include pedigree charts/family group sheets, with documentation for two-three generations of one family line, expanding each year. If multiple books are included in the exhibit, only bring a book with most current year's work.
- A101003 Local History Scrapbook/Notebook: (SF71)** Scrapbook or notebook that depicts history of local community or Nebraska that helps youth appreciate their heritage.
- A101004 Framed Family Groupings (or Individuals) of Pictures showing Family History: (SF71)** Pictures must be supported by a written explanation.
- A101005 Other exhibits depicting the Heritage of the Member's Family or Community - (SF71)** - Exhibit must be supported by a written explanation. May include biographical album of themselves or another family member, family cookbooks, etc.
- A101006 4-H History Scrapbook: (SF71)** A scrapbook relating to the 4-H history of local club or county. Must be work of individual 4-H'er - no club projects. If multiple books are included in the exhibit, only bring book with most current year's work.
- A101007 4-H History Poster: (SF71)** Poster relating to the 4-H history of local club or county or individual.
- A101008 Story or Illustration about a Historical Event. (SF71)**
- A101009 Book Review about Local, Nebraska or Regional history. (SF71)**

**A101010 Other Historical Exhibits (SF71)** Attach an explanation of historical importance.

**A101011 Family Traditions Book: (SF71)** Exhibitor scrapbook depicting family traditions of the past.

**A101012 Family Traditions Exhibit: (SF71)** Story or illustration of a family tradition or event. Exhibits must be supported by a written explanation.

**A101013 4-H Club/County Scrapbook: (SF71)** Scrapbook relating 4-H history of local club or county compiled by club historian. If multiple books are included in the exhibit, only bring a book with most current year's work.

**A101014 4-H Member Scrapbook: (SF71)** Scrapbook relating to individual 4-H members' 4-H history. If multiple books are included in the exhibit, only bring a book with most current year's work.

**A101015 Special Events Scrapbook: (SF71)** A scrapbook relating to a 4-H special event, such as Congress or CWF or a personal or family special event, such as a trip, family reunion, etc.

### DEPT A / DIV 102

#### HERITAGE - Level II / Advanced

Division 102, Level 2: Advanced (Over 4 years in project)

**A102001 Heritage Poster or Flat Exhibit: (SF71)** Entries may be pictures, posters, items, etc. that depict family heritage. Exhibits must be supported by a written explanation.

**A102002 Family Genealogy/History Notebook: (SF71)** Include pedigree charts/family group sheets, with documentation beyond two-three generations of one family line, expanding each year. If multiple books are included in the exhibit, only bring a book with most current year's work.

**A102003 Local History Scrapbook/Notebook (SF71)** Scrapbook or notebook that depicts history of local community or Nebraska that helps youth appreciate their heritage.

**A102004 Framed Family Groupings (or individuals) of Pictures showing Family History. (SF71)** Pictures must be supported by a written explanation.

**A102005 Other Exhibits depicting the heritage of the member's family or community -** Exhibit should be supported by a written explanation. May include biographical album of themselves or another family member, family cookbooks, etc.

**A102006 4-H History Scrapbook: (SF71)** A scrapbook relating 4-H history of local club or county. Must be work of individual 4-H'er no club project. If multiple books are included in the exhibit, only bring a book with most current year's work.

**A102007 4-H History Poster: (SF71)** Poster relating 4-H history of local club or county or individual.

**A102008 Story or Illustration about a Historical Event (SF71)**

**A102009 Book Review about Local, Nebraska or Regional History (SF71)**

**A102010 Other Historical Exhibits: (SF71)** attach an explanation of historical importance.

**A102011 Exhibit depicting the importance of a community or Nebraska Historic Landmark (SF71)**

- A102012 Community Report (SF71)** documenting something of historical significance from past to present.
- A102013 Historic Collection: (SF71)** displayed securely and attractively in a container no larger than 22 inches x 28 inches.
- A102014 Video Documentary of a Family or a Community Event (SF71)** Must be produced and edited by 4-H member. (Must be entered as DVD or USB)
- A102015 4-H Club/County Scrapbook: (SF71)** Scrapbook relating 4-H history of local club or county compiled by club historian. If multiple books are included in the exhibit, only bring a book with most current year's work.
- A102016 4-H Member Scrapbook: (SF71)** Scrapbook relating to individual 4-H members' 4-H history. If multiple books are included in the exhibit, only bring a book with most current year's work.
- A102017 Special Events Scrapbook: (SF71)** A scrapbook relating to a 4-H special event, such as Congress or CWF or a personal or family special event, such as a trip, family reunion, etc.

# CITIZENSHIP

The purpose of these Citizenship exhibits is to foster civic responsibility and action within the diverse areas of citizenship including community service, service learning, government and policy making.

## CITIZENSHIP GUIDELINES

- Exhibits are entered at 4-H'ers own risk. The Saunders County Ag Society and the Saunders County Extension will not be responsible for loss or damage to family heirloom items or any items in this division.
- Displays should not be larger than 22 inches x28 inches wide. If the size needs to be a different size because the historical item is larger than 22 inches x28 inches, please contact the office for approval. Display collections securely in an attractive container no larger than 22 inches x28 inches
- Supporting Material: **All entries must have a statement explaining:**
  - The purpose of the exhibit
  - Exhibitors are encouraged to show evidence of their personal experiences, study or observations that relate to their exhibit. This helps the judges understand what the 4-H'er did and learned in the process that led to the exhibit.
  - References - All exhibitors should reference material sources or supporting information used in exhibits (i.e., if questions from a game were taken from an outside source, they must be referenced).
  - Identification - All entries should be labeled with the exhibitor's name, club, and county.

**Scoring:** Scoresheets, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4h4citizenship>.

**Project Materials** - The official reference for the citizenship projects is Citizenship Public Adventures Kit (MI 7329) and Citizen Guide's Handbook (BU 7330). Other helpful citizenship references include Citizenship Washington Focus guides, Character Counts! and Service Learning Information.

## DEPT A / DIV 120 CITIZENSHIP

**Resources: Citizenship: Public Adventures** - Solve real problems in your community; Discover the possibilities of democratic citizenship; Plan and conduct a project that will create, change, or improve something valuable to people

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/91](https://4hcurriculum.unl.edu/index.php/main/program_project/91).

- A120001 Care Package Display: (SF182)** - This exhibit is a display about the PROCESS of creating and giving a care package, not the actual care package. You may use a poster, Power Point, or another multi-media program to talk about the PROCESS of developing and giving a care package to a service organization. PowerPoint should be saved to a USB/thumb drive. You need to answer the following questions in your exhibit.
- How did you select the organization?
  - What items did you include in your care package?
  - Why did you select those items?
  - How did it feel to present your care pack to the organization?
  - What did you learn from this experience?
  - Other information that you feel is important about the care package or organization.

Some examples of care packages are Backpack for school supplies, litter pan for animal shelter items, suitcase for abuse shelter or homeless shelter, etc.

- A120002 Citizenship Game: (SF182)** Which could include but is not limited to symbol flash cards, question and answer board or stimulation with props. Clear instructions on how to play the game and what the game hopes to accomplish must be included.
- A120003 Patriotic or Cultural Fine Arts: (SF182)** Can be made of any art media but should tie in with the relevance of the artwork to citizenship.
- A120004 Public Adventure Scrapbook: (SF182)** Should describe your Public Adventure or Service-Learning Activity. Scrapbooks must measure no more than 16 inches x16 inches.
- A120005 Public Adventure Poster: (SF182)** Should describe your Public Adventure or Service-Learning Activity. Display posters must be stiff enough to stand when supported from behind and below. Length and width must be no more than 24 inches x 28 inches.
- A120006 Written or Recorded Stakeholder Interview: (SF182)** Should follow the outline found in the Public Adventures Curriculum. It may be written or recorded. Recordings should be saved as a .wav or .mp3 file; a USB/thumb drive will be accepted.
- A120007 Written Citizenship Essay: (SF182)** Is designed to promote good citizenship and patriotism. This essay is open to all age groups. All essays should be 300 - 400 typewritten words.
- A120008 For 9th-12th Graders Only: Oral Citizenship Essay: (SF182)** Oral Citizenship Essay addressing the theme "Freedom's Obligations" should be 3-5 minutes. No background music, singing or other enhancement allowed. All essays should be saved as a .wav or .mp3 file; a USB/thumb drive will be accepted. Voice tone should be normal and conversational. A copy of the written essay should be attached.
- A120009 Service Items: (SF182)** - Can include but aren't limited to lap quilt, Quilt of Valor, and homemade toys. Only non-perishable items will be accepted. Attached to the exhibit should be an explanation of who the recipient was and how the service project was made and used. The service item could be part of a larger community service effort.
- A120010 4-H Club Exhibit: (SF182)** Should depict what a 4-H club has done in the area of community service. This item could include, but is not limited to, a service item, poster, scrapbook, cultural or creative arts item or care package, Quilt of Valor.

## DEPT A / DIV 130 SEEING i2i

**Resources: Seeing i2i** Discover your own family genealogy; Expand your cultural knowledge; Explore different cultures and ways of thinking [https://4hcurriculum.unl.edu/index.php/main/program\\_project/92](https://4hcurriculum.unl.edu/index.php/main/program_project/92)

- A130001 Cultural Fine Arts: (SF183)** can be made of any art media but should symbolize what makes them unique.
- A130002 How are we different? Interview (SF183)** - Should follow the interview guide in the participant manual on page 3 and should reflect on the differences and similarities between you and the person you are interviewing.
- A130003 Name Art: (SF183)** Should be a creative art exhibit that symbolizes or explains where your name came from and what it means. Can use any media.
- A130004 Family History: (SF183)** Depicting your family cultural history or the ethnic make-up of your community noting who were the first settlers, where did they come from, is there evidence of the background today (local celebrations, family celebrations, museum or educational displays, historical markers, etc.)
- A130005 Exhibit depicting a cultural food: (SF183)** That is special to your family. Can be a story or essay.
- A130006 "This is Who I Am" Poem. (SF183):** Written by the 4-H'er that reflects who they are.
- A130007 i2i Poster: (SF183)** That depicts what you have learned through the i2i Project.
- A130008 Biography: (SF183)** About an historical figure who has made a positive impact on our society or who has made a difference in the lives of others.
- A130009 Play Script: (SF183)** Written about a different culture.

# COMMUNICATIONS & EXPRESSIVE ARTS

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## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

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## FOR ADDITIONAL INFORMATION:

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## POSTERS

The purpose of the poster is to call attention to a subject. Every poster must be created to catch the viewer's attention quickly. Each must present only one specific message clearly. The poster should clearly feature some aspect of 4-H.

### Poster Guidelines:

- Posters will be judged on the following criteria.
  - IDEA: simple, clear message, appropriate for a poster
  - LETTERING: readable from a distance, appropriate size in proportion to art.
  - ART: one dominant, eye-catching element, art relates to written message.
  - ARRANGEMENT: makes good use of entire poster space without being too crowded: art and lettering are well balanced.
  - COLOR: use of bold colors that harmonize well, colors used are legible.
  - QUALITY OF CONSTRUCTION: neatness, appropriateness of materials used.
  - EFFECTIVENESS: works well as a poster.
- Posters should be **no larger than** 14 inches x 22 inches and on regular poster board. Do not use foam core or any other material that cannot be stapled or pinned to a display board.
- Those generated by computer must also meet this standard. Computer art generated on an 8 1/2 inches x 11 inches sheet of paper and mounted on poster board will be disqualified.
- Posters may be in any medium: watercolor, ink, crayon, markers, or computer graphics. They may not be three-dimensional.
- Posters may not use copyrighted materials, such as cartoon characters or commercial product names, logos, or slogans. Avoid using clichés or overused phrases that do not command the viewer's attention.
- When using the official 4-H Emblem (clover with the H's on each leaf), it must follow approved guidelines, which can be viewed at [goo.gl/yve3uk](http://goo.gl/yve3uk).
- **The 4-H members' name and age must be listed on the back of the poster.**
- Entry cards should be taped to the upper right-hand corner of the poster.
- Posters may be laminated to protect them. Loose plastic coverings used to protect the exhibit while being transported will be removed by the superintendent for evaluation and display.

## DEPT B / DIV 152 POSTERS

### (NOT Eligible for State Fair)

- B152901 Exploring Careers with 4-H: (CF83)** Poster should illustrate how 4-H'ers can explore career opportunities through 4-H projects.
- B152902 Photo Poster: (CF83)** The poster should focus on a 4-H theme of your choice, using one large, eye-catching photo.
- B152903 "4-H Grows Here": (CF83)** The Poster should illustrate how 4-H is growing and thriving in Nebraska.
- B152904 Other Poster (CF83)** – Any other type of poster

\*For more poster ideas, look through specific sections for poster opportunities that go on to State Fair.

## COMMUNICATIONS

Static exhibits in this division will be evaluated on clarity of purpose/message in relation to communication, accuracy of information, originality, creativity, evidence of exhibitor's learning in this area, and educational value of exhibit to viewers.

### Resources:

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/172](https://4hcurriculum.unl.edu/index.php/main/program_project/172)

## DEPT B / DIV 154 COMMUNICATIONS

### (NOT Eligible for State Fair)

- B154901 Now Hear This (CF90)** - Digitally record (using audio and/or video) yourself reading a children's book. Give the digital recording to a younger person in your community and watch them listen/view the recording of the book. Create an exhibit that displays the digital recording, a summary of what you learned by watching the child listen/view your recording, and other ways you can use communication skills to help young children.
- B154902 Follow My Lead (CF91)** - Make a set of directions to a place in your community (school, church, meeting place, etc.) Work with community leaders or other officials to share these directions with those who they would help. Create an exhibit that displays the directions, where the directions are being shared, and how the directions benefit your community.
- B154903 Simple Symbols (CF92)** - Design a new symbol or logo that would communicate a specific message to others in your 4-H clubs, school, or community. Propose the use of this symbol to the leaders of the group. Create an exhibit that highlights the new symbol, explains the symbol's meaning, and shares how the symbol will be used. the recording of the book.
- B154904 Symbol Scrapbook (CFxx)** Photograph 10 symbols and include them in a scrapbook that shares where the symbol was observed, what this symbol communicates and other places where this symbol might be observed.
- B154905 Storyboard a 4-H Project (CFxx)** Create a storyboard that explains the steps that were completed from the beginning to the end of a 4-H project that was previously completed in another area.
- B154906 Communications Game (CFxx)** Create a quiz game for your family or 4-H club members by selecting topic categories, writing, and answering questions within these categories and assigning point values to each question. Place this information on 3 inches x 5 inches index cards and display quiz game on a poster board. Explain how this game could be used and its purpose.
- B154907 Caring Correspondence (CFxx)** Create a formal or an informal letter, email or note that shows how much you care, such as a letter of appreciation, a thank you note or a friendship card. Need three or more examples.
- B154908 Let's Write (CFxx)** Display a handwritten or computer-generated letter on an appropriately sized poster board that requests something, thanks someone or expresses your opinion. (See pages 17–19 of Communications Module 1 Manual.)
- B154909 Compose Your Song (CFxx)** Display original song lyrics and the melody or tune selected on an appropriate-sized poster board. Include the three parts of a song. Chosen melody does not need to be original. (See pages 29–31 of Communications Module 1 Manual.)



**B154910 Illustrated Talk Poster (CFxx)** A visual aid for a presentation or demonstration to clearly explain a topic to an audience. May include step-by-step instructions. Size not to exceed 24 inches x 28 inches. (See pages 33–39 of Communications Module 1 Manual.)

**\*\* If you are looking to create a multi-media (PowerPoint, video, blog, etc.). See COMPUTER in SCIENCE, ENGINEERING & TECHNOLOGY section.**

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## CLUB BOOKS

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### DEPT B / DIV 156 CLUB BOOKS

**Resources:** Guides to officer books <https://4h.unl.edu/volunteer-training-club-leader>

#### **(NOT Eligible for State Fair)**

**B156901 Secretary's Book (CF100)** For the current year.

**B156902 Club News Item: (CF)** Collection of two or three news items written by the news reporter during the current year mounted on a poster or in a binder. Include newspaper name and date of items. The articles will be judged on news value and style.

\*4-H scrapbooks for clubs or individual can be entered in Heritage I or Heritage II.

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## EXPRESSIVE ARTS

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### DEPT B / DIV 140 EXPRESSIVE ARTS

#### **(NOT Eligible for State Fair)**

**B140901 Costume: (CF110)** Exhibit consists of a costume made or decorated by 4-H'er for use in a theatre arts production. Made for self or others. Can be the actual costume, poster with pictures or binder with pictures.

**B140902 4-H Member Portfolio: (CF110)** Collection of photographs, sketches or other samples illustrating learnings such as costume design, stage make-up, written scripts, set design or other learnings. Can be poster or binder.

**B140903 4-H Member Acting Portfolio: (CF110)** A collection of photographs of the 4-H'er acting in a play. Include a description of the photos, what you did and what you learned. Can be poster or binder.

**B140904 4-H Member Musical Portfolio: (CF110)** A collection of photographs of the 4-H'er performing in a musical production. Include a description of the photos, what you did and what you learned. Can be poster or binder.

**B140905 4-H Member Dance Portfolio: (CF110)** A collection of photographs of the 4-H'er performing in a dance production. Include a description of the photos, what you did and what you learned. Can be poster or binder.

**B140906 Puppet: (CF110)** Exhibit consists of a puppet made by the 4-H'er for use in theatre arts. Include details on how you made the item and how it will be used.

**B140907 Script: (CF110)** A script written by a 4-H'er for a play, musical skit, puppet show or other production.

**B140908 Stage Set Photography Display: (CF110)** A display of photos of a stage set that was made by the 4-H member. Include descriptions of the photos, what you did and what you learned. Can be poster or binder.

### DEPT B / DIV 140 SCRAPBOOKING & PAPER CRAFTS

#### **(NOT Eligible for State Fair)**

**Rules:** These classes can be utilized by 4-H members to share their scrapbooking creativity and skills. Creativity and neatness will be stressed. May put into a protective cover.

**B140910 Scrapbook Layout One Page #1** – your choice of theme.

**B140911 Scrapbook Layout One Page #2** – your choice of theme.

**B140912 Scrapbook Layout One Page #3** – your choice of theme.

**B140915 Scrapbook Layout Two Page #1** - your choice of theme.

Can be one double sided page with a continuous theme or occasion on both sides or two one sided pages that fold out to be displayed at one time.

**B140916 Scrapbook Layout Two Page #2** - your choice of theme.

Can be one double sided page with a continuous theme or occasion on both sides or two one sided pages that fold out to be displayed at one time.

**B140917 Scrapbook Album** – your choice of theme and size.

Consisting of at least 8 pages with a common theme.

**\*\*Consider entering in Heritage for 4-H or special event scrapbooks\*\***

**B140918 Handcrafted Greeting Cards #1** – Your choice of theme.

Consists of at least 3 greeting cards and envelopes that have been crafted by the 4-H member either by paper piecing, stamping or other method on paper. **\*\*Look in Computers for computer generated cards\*\***

**B140919 Handcrafted Greeting Cards #2** – Your choice of theme.

Consists of at least 3 greeting cards and envelopes that have been crafted by the 4-H member either by paper piecing, stamping or other method on paper. **\*\*Look in Computers for computer generated cards\*\***

### DEPT B / DIV 140 OTHER CRAFTS

#### **(NOT Eligible for State Fair)**

**Rules:** These classes can be utilized by 4-H members to share their crafting skills and creativity. Make sure to check out the classes in Home Design and Restoration before entering here as most of those classes are eligible for State Fair.

**B140930 Handmade Bath Salts or Bath Bombs** – Include ingredients and instructions for use.

**B140931 Handmade Soap** – included ingredients and instructions for use.

**B140940 Decorated Drink Container** – Include details of how the item was created and how it will be used as well as care instructions. Examples include adding vinyl to a Stanley cup or using etching cream. **\*\*Consider entering in Maker Space/Digital Fabrication found in STEM Computers\*\***

**B140950 Duct Tape Accessory** – For home use. Include details of how the item was created and how it will be used.

**B140960 Pinterest Craft** - Project inspired by Pinterest. Include inspiration in documentation as well as how the item was created and how it will be used.

**B140970 Miscellaneous Craft #1**– your choice of item. Include details of how the item was created and how it will be used.

**B140971 Miscellaneous Craft #2**– your choice of item. Include details of how the item was created and how it will be used.

**\*\*Check out Visual Arts and Home Design & Restoration for more classes.**

**\*\*Consider entering in Entrepreneurship if you sell these items\*\***

# SAFETY EDUCATION

## ENTRY/CHECK-IN:

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## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## CITIZEN SAFETY

### DEPT E / DIV 440 CITIZEN SAFETY

In this category 4-H'ers have the opportunity to create exhibits about all-terrain vehicles, fire, and tractor safety. In addition, participants can also create informational exhibits about basic safety strategies. Through involvement in this category, 4-H'ers will be better educated about personal safety and have the knowledge base to educate others about safety.

**Scoresheets**, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hsafety>.

**Resources:** Learn how to report an emergency; Learn basic first aid; Find out how to stock a first aid kit; Discover strategies for safety at home and away; Design a poster about fire safety; Learn to develop fire escape plans; Find out how to use ATV's safely; Learn about trouble-shooting and emergency procedures; Find out about hazards of the trail; Learn how to dress appropriately when riding; Learn to operate a tractor safely; Understand tractor controls and safety checks

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/86](https://4hcurriculum.unl.edu/index.php/main/program_project/86)

**E440001 First Aid Kit: (SF110)** A first aid kit is a good way to organize supplies in an emergency. The kit should be assembled in a container appropriate for the kit's intended use. A description of where the kit will be stored and examples of specific emergencies for that situation should be included in the exhibit. The kit should include a written inventory and purpose statement for included items. Items should cover the following areas: airway and breathing, bleeding control, burn treatment, infectious disease protection, fracture care and miscellaneous supplies. Use Citizen Safety manual, 4-H 425, pages 6 & 7 for guidance. Kits containing any of the following will be automatically disqualified:

1. Prescription medications. (If the kit's purpose is to provide medication for someone with special needs, explain in the written description and inventory, but remove the medication.)
2. Materials with expiration dates on or before the judging date. (This includes sterile items, non-prescription medications, ointments, salves, etc. Articles dated month and year only are considered expired on the last day of that month.)
3. Any controlled substance.

**E440002 Disaster Kit (Emergency Preparedness): (SF111)** Disaster kits must contain the materials to prepare a person or family for emergency conditions caused by a natural or man-made incident. Selection of materials is left to the exhibitor. Family or group kits must have enough material or items for each person. A description of the kit's purpose, the number of people supported, and a list of contents is required. Youth are encouraged to test their kit by challenging their family to try to survive using only the included materials for the designated time. If tested, share that experience in kit documentation. Please include an explanation of drinking water needs for your disaster kit. **Do not bring actual water to the fair in the kit.**

**E440003 Safety Scrapbook: (SF292)** The scrapbook must contain 15 news articles from print and/or internet sources about various incident types. Mount each clipping on a separate page accompanied by a description of events leading to the incident and any measures that might have prevented it. The Scrapbook should be bound in a standard size hardcover binder or notebook for 8 ½ inches X 11 inches size paper. Correct sentence structure, readability and thorough explanations are an important part of judging.

**E440004 Safety Experience: (SF190)** The exhibit should share a learning experience the youth had related to safety. Examples could be participating in a first aid or first responder training, a farm safety day camp, babysitting workshop, or similar event; scientific experiment related to safety; or the youth's response to an emergency situation. The exhibit should include a detailed description of the experience, the youth's role, some evidence of the youth's leadership in the situation and a summary of the learning that took place. Exhibits may be presented in a poster with supplemental Rev. 12/19/2014 documentation, a notebook including up to ten pages of narrative and pictures, or a multimedia presentation on a CD lasting up to five minutes.

**E440005 Career In Safety: (SF191)** The exhibit should identify a specific career area in the safety field and include education and certification requirements for available positions, salary information, demand for the field and a summary of the youth's interest in the field. Examples of careers include firefighters, paramedics, emergency management personnel, some military assignments, law enforcement officers, emergency room medical personnel, fire investigator and more. It is recommended youth interview a professional in the field in their research. Additional research sources might include books, articles, career web sites, job-related government web sites or interviews with career placement or guidance counselors. Exhibits may be presented in a poster with supplemental documentation, a notebook including up to ten pages of narrative and pictures, or a multimedia presentation on a CD lasting up to five minutes.

**E440910 ATV Safety Poster/Notebook (CF80):** Six or more photos of yourself demonstrating safety measures necessary for ATV operation. Include explanations with each photo. **(Not Eligible for State Fair).**

**E440911 ATV Safety Scrapbook (CF84):** Must contain 15 news articles from both print and internet sources of various incident types. Each clipping will be mounted on a separate page and accompanied by a description of events leading to the incident and any measures that could have prevented it. The Scrapbook should be bound in a standard size hardcover binder or notebook for 8 ½ inches x 11 inches size paper. Correct sentence structure, readability and thorough explanations are an important part of judging. **(Not Eligible for State Fair).**

**E440912 Tractor Safety Poster/Notebook (CF80)** Six or more photos of yourself demonstrating safety measures necessary for tractor operation. Include explanations with each photo. **(Not Eligible for State Fair).**

**\*\*See Environmental Education & Earth Science for Outdoor Skills safety classes.**

# FIRE SAFETY

**Resources:** Design a poster about fire safety; Learn to develop fire escape plans

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/87](https://4hcurriculum.unl.edu/index.php/main/program_project/87)

## DEPT E / DIV 450 FIRE SAFETY

**E450001 Fire Safety Poster: (SF269)** - This is a home floor plan drawn to scale showing primary and secondary escape routes and where fire extinguishers and smoke detectors are located. Draw every room, including all doors and windows. Use black or blue arrows showing primary escape routes from each room. Use red arrows showing secondary routes to use if the primary routes are blocked. Primary and secondary escape routes must lead outside to an assembly location. Documentation should include evidence the escape plan has been practiced at least four times. Posters must be constructed of commercial poster board at least 11 inches x 14 inches but not larger than 22 inches x 28 inches.

**E450002 Fire Safety Scrapbook - (SF270)** - The scrapbook must contain 10 news articles from print and/or internet sources about fires to residential or commercial properties or landscapes. Mount each clipping on a separate page accompanied by a description of events leading to the incident and any measures that might have prevented it. The Scrapbook should be bound in a standard size hardcover binder or notebook for 8 ½ inches X 11 inches size paper. Correct sentence structure, readability and thorough explanations are an important part of judging.

**E450003 Fire Prevention Poster - (SF268)** - Posters should promote a fire prevention message and be appropriate to display during National Fire Prevention Week or to promote fire safety at specific times of the year (Halloween, 4th of July, etc.). Originality, clarity, and artistic impression will all be judged. Do not include live fireworks, matches or other flammable/explosive/hazardous materials. Any entry containing this material will be disqualified. Posters must be constructed of commercial poster board at least 11 inches x 14 inches but not larger than 22 inches x 28 inches.

# FINANCE & ENTREPRENEURSHIP

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 – 8:00 p.m.

*No exhibits will be accepted after 8:00 p.m. on Monday, July 29*

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section

# MY FINANCIAL FUTURE

## DEPT C / DIV 247

### MY FINANCIAL FUTURE

This area helps participants learn more about how to make smart fiscal decisions and how to improve financial literacy. The different exhibits provide a variety of learning experiences for 4-H'ers. Participants in this category will emphasize setting smart goals and keeping a spending plan.

#### Rules

1. General Information: Entries should be typed and then attached to a piece of colored card stock or colored poster board (limit the size of the poster board or card stock to 14" inches x 22" inches or smaller). You may use the front and back of the poster board.

**Scoresheets, forms, contest study materials,** and additional resources can be found at

<https://go.unl.edu/ne4hconsumermanagement>.

#### Resources

My Financial Future: Beginner & Advanced

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/41](https://4hcurriculum.unl.edu/index.php/main/program_project/41)

**C247001 Write 3 SMART financial goals for yourself: (SF247)** -

One should be short term, one intermediate, and one long term. Explain how you intend to reach each goal you set.

**C247002 Income Inventory: (SF247)** Using page 13 as a guideline, list sources and amounts of income you earn/receive over a six-month period. Answer the following questions: What were your income sources? Were there any steady income sources? What did you do with the income you received? Include your income inventory in the exhibit.

**C247003 Tracking Expenses: (SF247)** Use an app or chart like the one on page 17 to track your spending over 2 months. Answer the following questions: What did you spend most of your money on? What did you learn about your spending habits? Will you make any changes in your spending based upon what you learned? Why or why not? Include your chart in your exhibit.

**C247004 Money Personality Profile: (SF247)** Complete the money personality profile found on pages 21-22. Answer the following questions: What is your money personality? How does your money personality affect the way you spend/save money? Have a friend or family member complete the money personality profile. Compare and contrast (how are you alike how are you different) your money personality profile with theirs.

**C247005 Complete Activity 8: (SF247)** "What Does It Really Cost?" on pages 39-40.

**C247006 My Work; My Future: (SF247)** Interview three adults in your life about their careers or jobs using the questions on page 51 and record these answers. In addition, answer the following questions on your display. What did you find most interesting about these jobs? Were there any positions you might want to pursue as your career? Why/Why not? What careers interest you at this point in your life? What are three steps you need to do now to prepare for this career?

**C247007 Interview (SF247)** Someone who is paid a salary; someone who is paid a commission; and someone who is paid an hourly wage. Have them answer the following questions plus any additional questions you may have. \*What are some benefits of receiving your pay the way you do (salary, commission, or hourly wage)? \*What are some negative outcomes for getting paid the way you do? \*Does your pay keep pace with inflation? Why do you think this?  
Summarize: Based upon your interviews which payment method would suit you the best? Discuss your answer.

**C247008 The Cost of Not Banking: (SF247)** Type your answers to the questions about Elliot on page 50.

**C247009 Evaluating Investment Alternatives: (SF247)**

Complete the case study of Jorge on page 64. Answer all three questions found at the bottom of the page.

**C247010 Understanding Credit Scores: (SF247)** Watch the video and read the resource listed on page 71. Answer the following questions. \*Name 3 prudent actions that can reduce a credit card balance. \*What are the main factors that drive the cost of credit? \*List one personal financial goal that you could use credit or collateral to purchase. Discuss possible consequences that might happen with improper use of credit for your purchase.

**C247011 You Be the Teacher: (SF247)** Create an activity, story board, game or display that would teach another youth about "Key Terms" listed on page 62. Activity/display must include at least five (5) of the terms.

**Also consider Attention Shoppers & Shopping in Style found in the Consumer & Family Sciences – Consumer Management section.**

## ENTREPRENEURSHIP

Entrepreneurship exhibits help participants develop an entrepreneurial mindset. An entrepreneurial mindset is needed to tackle social issues as well as explore new business opportunities.

### RULES:

1. Exhibit Guidelines: The 4-H member's name, age, town and county must be listed on the back of the exhibit. Entry cards should be stapled or taped (not paper-clipped) to the upper right-hand corner of posters. If the exhibit is a poster, it must be 14 inches x 22 inches and may be arranged either horizontally or vertically. Poster may not use copyrighted materials, such as cartoon characters or commercial product names. **Exhibits which do not conform to size or content guidelines will be lowered one ribbon placing.** Posters may include photographs, charts, or examples as well as a written explanation.

**RESOURCES:** Learn about entrepreneurs; Take Entrepreneur Skills Assessment; Investigate the risks; Learn about the importance of reputation; Sell your product or idea; Learn about a business plan; Develop a concept; Find resources; Learn about business start-up; Working knowledge of entrepreneurship; Understand financials and feasibility; Understand marketing principles, including global markets; Understand what it takes to be in business.

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/93](https://4hcurriculum.unl.edu/index.php/main/program_project/93)

## DEPT F / DIV 531

### Entrepreneurship Investigation

**F531001 Interview an Entrepreneur - (SF181)** - Share what you learned from the person about having an entrepreneurial mindset. How have they applied that mindset? Have they started a business? Are they tackling a social issue? How do they deliver excellent customer service? How will what you have learned through this interview change your future plans or ways of thinking about entrepreneurship? The summary of the interview should be typed and with a maximum length of two pages (12 pt. font). Enter exhibit in a folder with fasteners (no slide bars).

**F531002 Social Entrepreneurship Presentation - (SF181)** - Prepare a five-slide PowerPoint presentation about a social entrepreneurship venture to benefit a group or individual in your community. Social entrepreneurs are people who are in business to help others. Submit a printout of the note pages which show each slide and include an explanation of each slide. Enter exhibit in a folder with fasteners (no slide bars).

**F531003 Marketing Package - (SF181)** - (mounted on a 14 inches x22 inches poster) Must include at least three items (examples) developed by the 4-H'er from the following list:

- business card
- advertisement
- printout of an internet home page
- signs
- direct mail piece, etc.
- brochure
- business promotional piece
- packaging design
- logo design

The marketing package should be for an original business developed by the 4-H'er and not an existing business.

**F531004 Sample of an Original Product - (SF181)** - With an information sheet (8 ½ inches x 11 inches) answering the following questions:

- What did you enjoy the most about making the product?
- What challenges did you have when making the product?
- Would you do anything differently next time? If so, what?
- What is the suggested retail price of the product? How did you decide on the price?
- Market analysis of the community – data gathered through a survey of potential customers.
  - Survey at least 10 people in your community about your product.
- How much would you earn per hour? Show how you determined this figure.
- What is unique about this product?

**F531005 Photos of an Original Product - (SF181)** - (mounted on a 14 inches x22 inches poster) Must include three photos of developed product and a mounted information sheet answering the following questions. If exhibiting in both Class F531004 and Class F531005, products must be entirely different products.

Information Sheet:

- What did you enjoy the most about making the product?
- What challenges did you have when making the product?
- Would you do anything differently the next time? If so, what?
- What is the suggested retail price of the product?
- How did you decide on the price?
- Market analysis of the community – data gathered through a survey of potential customers.
  - Survey at least 10 people in your community about your product.
- How much would you earn per hour? Show how you determined this figure.
- What is unique about this product?

**F531006 Entrepreneurship Challenge - (SF181)** - Take on the entrepreneurship challenge. Complete five (5) or more of the challenges from the following list. The exhibit will include highlights from these five (5) challenges. Consider labeling each challenge so the viewer will understand what the challenge was. Enter a poster, video (or other digital presentation), report, or scrapbook related to the learning from the challenge. Use your creativity to show and share what you learned. -

Select five (5) challenges from the list below:

- Sell something.
- Talk to local leaders about entrepreneurial thinking and how it is being applied or could be applied to a current community issue.
- Introduce yourself to a local entrepreneur and take a selfie with them.
- Be a detective! Look for Nebraska-made products and find out more about the business.
- Tour 2-3 entrepreneurial businesses and create a photo story.
- Investigate what it takes to be an entrepreneur and complete a skills assessment.
- Make a prototype (sample/model) of a new product idea. Include the prototype or a photo of the prototype.
- Work with a friend to develop a new business idea!
- Contact your local Extension office to learn about entrepreneurship opportunities.
- Create an activity to teach others about entrepreneurship (color page, puzzle, game, etc.).



# HUMAN DEVELOPMENT

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## HUMAN DEVELOPMENT

The term Human Development includes childcare, family life, personal development, and character development.

### Rules:

- Exhibitors in the Human Development project area will be asked to focus on designing toys/games/activities that meet the different needs of children.
- Categories are based on the Early Learning Guidelines in Nebraska which identify the important areas in which our children should grow and develop. Use the Nebraska Department of Education website and the resources around the Early Learning Guidelines to help understand the six areas and the skills children need to develop to create your exhibit, in conjunction with your project manual.

<https://www.education.ne.gov/oec/early-learning-guidelines>

### Information Sheets

- Classes 1 – 6 & Class 8: Final ribbon placing of the exhibit will include the completeness and accuracy of this information sheet.

## DEPT C / DIV 200 HUMAN DEVELOPMENT

**4-H'ers may enter: Toy, game, or activity** made for a selected and identified age group. The intent is for the toy/game/activity to teach the child in the developmental area related to each class. For example, a game that is developed to help youth learn language and literacy skills would be an exhibit for class 2. Each area is a different class. Information sheet required or exhibit will be dropped a ribbon placing for classes 1-6 & 8.

**C200001 Social Emotional Development (SF30)** - toy, game or activity made for a selected and identified age group.

**C200002 Language and Literacy Development (SF30)** - toy, game or activity made for a selected and identified age group.

**C200003 Science (SF30)** - toy, game or activity made for a selected and identified age group.

**C200004 Health and Physical Development (SF30)** - toy, game or activity made for a selected and identified age group.

**C200005 Math (SF30)** - toy, game or activity made for a selected and identified age group.

**C200006 Creative Arts (SF30)** - toy, game or activity made for a selected and identified age group.

### Information sheets for Classes 1 - 6 should include:

- Where did I get the idea for this exhibit?
- What decisions did I make to be sure the exhibit is safe for children to use?
- What age is this toy, game, or activity appropriate for and why? (Infant, Birth-18 months; Toddlers, 18 months-3 yrs.; Preschoolers, 3-5 yrs. or Middle Childhood, 6-9 yrs.) 4-H'ers must give at least 2 examples that help in understanding the appropriateness of this exhibit for the age of the child (see project manuals).
- How is the toy, game or activity intended to be used by the child?

**C200007 Activity with a Younger Child: (SF115)** Poster or Scrapbook showing a 4-H'er working with a child aged 0 to 8 years. May show a specific activity such as making something with the child or other childcare and interactions as the 4-H'er chooses. May include photos, captions, story, or essay. Size of poster or scrapbook - large enough to tell the story. Other people may take photos so that 4-H'er can be in the photo. 4-H'er must make the poster or scrapbook. No information sheet needed for Class 7.

**C200008 Babysitting Kit: (SF85)** Purpose of the kit is for the 4-H member to take this with them when they babysit in someone else's home. Do not make kit for combination of ages or for your own family to use. 4-H member **must** make one or more items in the kit, but purchased **additional** items are also allowed. A list of items in the kit is suggested to be included. Display in box or bag suitable for what it contains. Approximate size not larger than 12 inches x15 inches x10 inches. All items in the kit must be safe for a child to handle. Most importantly the kit should serve a defined purpose, not just be a catch all for several items.

### Information sheet for Class 8 should include:

- State which ONE age group (infant, toddler, preschooler, middle childhood) the kit was prepared for.
- What are children this age like? Give 2 examples to show how the kit would be appropriate for children this age.
- What will the child learn or what skills will they gain by using the kit?
- What item(s) were made by the 4-H'er. 4-H'er should make one or more items in the kit, but purchased items are also allowed. (It is highly suggested that an inventory list of items in the kit be included)

**C200009 Family Involvement Entry: (SF115)** Scrapbook, poster or story describing an activity the family did together. It might include making something such as a doll house or feed bunk. Items may be exhibited if desired. Other possibilities include a house or farm cleanup project, a family reunion, a celebration of a family milestone, a trip or vacation, moving, a community service project. Photographs are encouraged. Visuals should show family participation. Participation by all family members is important. Include a list of family members and what each person did to participate in the event.

**C200010 Growing with Others Scrapbook or Poster: (SF115)** Examples: How to decide if it is time you can be home alone, and related activities. How responsibilities and privileges are related. Friendships. Working with others. Understanding rules and boundaries. A family tree. A family rules chart. A family meal plan, with pictures of a special family meal. A home safety checklist. Being street smart (safety). A school scrapbook showing yourself and your school activities, memories, and special interests.

**C200011 Growing in Communities: (SF115)** Scrapbook or poster. Examples: A career study. A photo story about your own growth and development, not only physically but emotionally, socially, spiritually, mentally. A television evaluation (see project manual). How you have overcome obstacles. Friendships. A community profile. A community service project. Working with parents. Teaching experiences. Understanding discipline. Playground safety check.

**C200912 Kids on the Grow Portfolio, scrapbook, poster, or 3-dimensional exhibit - (Growing On My Own): (Not Eligible for State Fair).** How rules and privileges are related. A family rules chart. A home safety display, poster. A school scrapbook. Time management clock. Learning box.



# PHOTOGRAPHY

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

# PHOTOGRAPHY

The purpose of this project area is to establish basic to advanced knowledge of and abilities in using photographic equipment, lighting, and composition to capture images, express feelings, and communicating ideas. Participants can work through the three project levels, progressing from basic to advanced photography skills and techniques.

## RULES:

1. **4-H members are allowed to exhibit in only one photography level.**
2. **For State ONLY - 4-H members may enter up to three exhibits but no more than one exhibit per class (see general rules).**
3. **For COUNTY Fair – 4-H members may enter one exhibit per class in only one level.**
4. An image may only be used on one exhibit with the exception of Portfolios, which may include images entered in other classes.
5. **Cameras:** Photos may be taken with any type of film or digital camera, including phones, tablets, and drones.
6. Photos must be shot by 4-H member during the current project year with the exception of Portfolios, which may include images captured and/or exhibited in previous years.
7. Securely attach photos, mats, backing, and data tags. Exhibits that are poorly attached may be disqualified. Do not use photo corners, borders, or place coverings over the exhibits.
8. **Portfolios:** All portfolios must include the following information: 1) 1-page max bio, 2) table of contents, 3) year each photo was taken, 4) title for each image, 5) device make and model used to capture each image, and 6) reflections for each photo. When writing reflections, youth should focus on what new photography techniques or skills they were practicing when they took the photo, what makes the image successful, and what could have been done to improve the image. Portfolios may be presented in either print or digital formats:
  - A. Printed portfolios should be presented in an 8.5 x 11 inch three-ring binder or similar book format. Recommended photo size is 8 x 10 inch. Matting is not necessary.
  - B. Digital portfolios may be presented online and must be exhibited along with a single 8.5x11 flyer. Flyers must include a link, URL, or QR code that takes users (judges and fairgoers) to their online portfolio.
9. **Display Exhibits:** Displays consist of three 4 x 6 inch photos mounted on a single horizontal 11 x 14 inch black or white poster or mat board. Incorrect sizes will not be accepted. No foam board backing should be used. Each photo in the display must be numbered using a pencil. Numbers should be readable but not distract from the overall display. No titles, captions, or stick-on numbers will be allowed. Photos may be mounted vertically or horizontally. Appropriate Data Tags are required (see rule regarding Data Tags).
10. **Print Exhibits:** Print exhibits must be 8 x 10 inches printed and mounted in 11 x 14 inch (outside size) cut matting with a sandwich mat board backing. Incorrect sizes will not be accepted. No foam board should be used for matting or backing. Mat openings may be rectangular or oval. Photos may be horizontal or vertical. No frames are allowed. Appropriate data tags are required (see rule regarding Data Tags).
11. **Entry Tags:** Entry tags should be securely attached to the upper right-hand corner of the exhibit.
12. **Data Tags:** Data Tags are required on all print and display exhibits. Data tags are not required for portfolios. Each exhibit must have the appropriate number and level of data tags as outline below. Data tags should be securely attached to the back of the exhibit. **Current data tags and help sheet are available at <https://go.unl.edu/ne4h-photography>.**
  - a. **Level 1 Prints:** All Level 1 prints must have a Level 1 Data Tag.
  - b. **Level 1 Displays:** Each photo of the display must include a separate Level 1 Data Tag. Data Tags should be numbered with the corresponding photo's number.
  - c. **Level 2 Prints:** All Level 2 prints must have a Level 2 Data Tag.
  - d. **Level 2 Displays:** Each photo of the display must include a separate Level 2 Data Tag. Data Tags should be numbered with the corresponding photo's number.
  - e. **Level 3 Prints:** All Level 3 prints must have a Level 3 Data Tag.
13. **On-Campus Exhibition Selection:** Level 2 and Level 3 prints exhibited at State Fair may be selected for special on-campus exhibitions. Selected prints will be collected at the end of State Fair and will be returned to county Extension offices after the completion of their on-campus exhibition.

**SCORESHEETS,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4h-photography>.

**Resources:** Get to know your camera; Practice keeping camera steady and level; Practice taking photos, noticing natural light; Notice shadows and their potential in photography; Practice using natural light from several different directions; Practice using flash for fill, solving red-eye problems; Evaluate background, middle-ground, and foreground when taking photos; Practice filling the frame with the subject; Practice eliminating background clutter in photos; Practice using different viewpoints and perspectives in photos; Compose creative, unusual photos; Compose variety of selfies; Take photos of people, places, and things; Sequence photos to tell a story; Create black and white photos; Evaluate photos using critical thinking; Get to know your camera's capabilities using zoom; Practice using different lens filters; Practice using light to portray a specific mood; Practice taking photos of reflections; Practice taking photos without the flash feature on your camera; Practice using the Rule of Thirds and the Rules of the Golden Triangle and the Golden Rectangle; Practice taking photos from different points of view/perspectives; Practice creating photos with interesting negative spaces; Practice capturing unposed, candid shots of a subject or event; Practice taking photos of "bits and pieces" of ordinary objects to create a work of art; Practice using a camera to create a panorama; Use color to create photos that are cool warm, monochromatic, contrasting, and/or complementary; Practice taking photos with a specific purpose in mind to teach, instruct, or sell a product or service; Evaluate photos that represent body of work; Get to know your camera's capabilities using the mode dial; Practice capturing a focal point understanding how camera equipment and depth of field effects the photo; Practice taking photos in low-light situations; Practice taking photos that help you get the correct exposure; Practice taking silhouettes; Practice composing photos that include geometric shapes and interesting framing; Practice composing photos that break photography "rules"; Practice taking still-life photos; practice capturing portraits showing a person's character and personality; Practice taking photos of interesting shapes, patterns, and textures; Practice capturing photos where the subject is in motion; Practice taking photos that are outside the normal limits: astrophotography, underwater, infrared; Practice creating creative joiners; Evaluate photos that represent body of work

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/28](https://4hcurriculum.unl.edu/index.php/main/program_project/28)

## DEPT B / DIV 180

### PHOTOGRAPHY BASICS - LEVEL 1

#### (NOT Eligible for State Fair)

**B180910 Level 1 Portfolio: (SF88)** Level 1 portfolios should represent the photographer's best work and must include 5-7 different images from the 4-H member's photography career. At least 2 images must have been taken during the current year. The remaining images may have been taken at any time during the member's 4-H experience and may have been previously exhibited. Portfolios may include photos which are exhibited in other Level 1 classes during the same year. Portfolios must include:

- 1) 1-page max bio
- 2) table of contents
- 3) year each photo was taken
- 4) title for each image
- 5) device make and model used to capture each image
- 6) reflections for each image

When writing reflections, youth should focus on what new photography techniques they were practicing when they took the photo, what makes the image successful, and what could have been done to improve the image.

**B180920 Fun with Shadows Display or Print: (CF85)** Photos should capture interesting or creative use of shadows (Activity 4)

**B180930 Get in Close Display or Print: (CF85)** Photo should capture a close-up view of the subject or object. (Activity 8)

**B180940 Bird's or Bug's Eye View Display or Print: (CF85)** Photo should capture an interesting viewpoint of a subject, either from above (bird's eye view) or below (bug's eye view). (Activity 10)

**B180950 Tricks and Magic Display or Print: (CF85)** Photos should capture visual trickery or magic. Trick photography requires creative compositions of objects in space and are intended to trick the person viewing the photo. For example, if someone is standing in front of a flowerpot, the pot might not be visible in the image, making it look as if the flowers are growing out of the person's head. (Activity 11)

**B180960 People, Places, or Pets with personality Display or Prints: (CF85)** Photos should have a strong focal point, which could be people, places, or pets. Photos should capture the subject's personality or character. Photos may be posed or un-posed. (Activity 13)

**B180970 Black and White Display or Print: (CF85)** Photos should create interest without the use of color. Photos should show stark contrast and/or textures. Photos may be captured in black and white or captured in color and edited to black and white. (Activity 15)

**B180980 My Favorite Other Picture Print: (CF85)** Any other favorite photo.

**B180990 Captioned Print: (CF85)** Your favorite photo enhanced with a caption.

**B180991 Picture Display: (CF85)** Entry will consist of three pictures. The 4-H members will exhibit ONE PICTURE FROM THREE DIFFERENT CATEGORIES. Display instructions - see rule #9. Data Tags are required. Categories to be selected from include:

- 1) animal
- 2) building
- 3) people
- 4) landscape
- 5) trick photography
- 6) still life
- 7) sports

**B180992 Challenging Photo Exhibit: Telling a Story Display (CF85)** Exhibit will include three photos which tell a story without words. Photos may show something being created, destroyed, consumed, moving, or growing. Photos should capture the beginning, middle, and end of a single story, project, or event. See instructions for display in Rule 9. (Activity 14)

## DEPT B. / DIV 181

### NEXT LEVEL PHOTOGRAPHY - LEVEL 2

**Rules:** Level 2 photographers should be utilizing all the skills and techniques they have developed thus far in their photography careers, especially topics covered in Book 1 Photography Basics and Book 2 Next Level Photography.

**B181010 Level 2 Portfolio: (SF88)** Level 2 portfolios should represent the photographer's best work and must include 5-7 different images from the 4-H member's photography career. At least 2 images must have been taken during the current year. The remaining images may have been taken at any time during the member's 4-H experience and may have been previously exhibited. Portfolios may include photos which are exhibited in other Level 2 classes during the same year. Portfolios must include:

- 1) 1-page max bio
- 2) table of contents
- 3) year each photo was taken
- 4) title for each image
- 5) device make and model used to capture each image
- 6) reflections for each image

When writing reflections, youth should focus on what new photography techniques they were practicing when they took the photo, what makes the image successful, and what could have been done to improve the image. Plastic sleeves are recommended.

**B181020 Creative Techniques & Lighting Display or Print: (SF87)** Photos should capture a creative use of lighting, such as diffused lighting, backlighting, or hard lighting, reflections, or another lighting technique covered in Book 2 Next Level Photography (Activity 3, 4, 5)

**B181030 Creative Composition Display or Print: (SF87)** Photos should capture a creative composition using the Rule of Thirds, Golden Triangle, Golden Rectangle, or another composition technique covered in Book 2 Next Level Photography. (Activity 6, 7, 8, 9)

**B181040 Abstract Photography Display or Print: (SF87)** Photos should be abstract or capture a small piece of a larger subject. Abstract photos may not look like anything in particular but should be able to capture a viewer's attention. (Activity 11)

**B181050 Candid Photography Display or Print: (SF87)** Candid photos should capture a special moment or meaningful interaction. Photos should be un-posed. (Activity 10)

**B181060 Expression through Color Display or Print: (SF87)** Photos should capture a creative use of color or a color scheme, such as complimentary, contrasting, monochromatic, warm, cool, primary, secondary, or tertiary. (Activity 13)

**Classes B181970 – B181991 are NOT State Fair eligible**

**B181970 People, Places, or Pets with personality Display or Prints: (SF87)** Photos should have a strong focal point, which could be people, places, or pets. Photos should capture the subject's personality or character. Photos may be posed or un-posed. **Not State Fair eligible.**

**B181980 Black and White Display or Print: (SF87)** Photos should create interest without the use of color. Photos should show strong contrast and/or textures. Photos may be captured in black and white or captured in color and edited to black and white. **Not State Fair eligible.**

**B181990 My Favorite Other Picture Print: (SF87)** Any other favorite photo. **Not State Fair eligible.**

**B181991 Captioned Print: (SF87)** Your favorite photo enhanced with a caption. **Not State Fair eligible.**

## DEPT B / DIV 182

### MASTERING PHOTOGRAPHY LEVEL 3

**Rules:** Level 3 photographers should be exploring and experimenting with advanced techniques. This may include but does not necessarily require using an SLR camera, manual adjustments, or other advanced equipment. Level 3 photographers should be utilizing all the skills and techniques they have developed throughout their photography career, especially topics covered in Book 1 Photography Basics, Book 2 Next Level Photography, and Book 3 Mastering Photography.

**B182010 Level 3 Portfolio (SF88)** Level 3 portfolios should represent the photographer's best work. Level 3 portfolios must include 9-11 images from the 4-H member's photography career. At least 3 images should be from the current year. The remaining images may have been taken at any time during the member's 4-H experience and may have been previously exhibited. Portfolios may include photos which are exhibited in other Level 3 classes during the same year. Portfolios must include:

- 1) 1-page max bio
- 2) table of contents
- 3) year each photo was taken
- 4) title for each image
- 5) device make and model used to capture each image
- 6) reflections for each image

When writing reflections, youth should focus on what new photography techniques or skills they were practicing when they took the photo, what makes the image successful, and what could have been done to improve the image.

**B182020 Advanced Techniques & Lighting Print (SF89)** Photos should show an experimentation or exploration of advanced lighting, such as low-light or silhouette photography or another advanced photography technique, such as astrophotography, underwater photography, or infrared photography. (Activity 3, 4, 5, or 12)

**B182030 Advanced Composition Print: (SF89)** Photos should show advanced compositions, such as using diagonal, horizontal, or vertical lines or repeating shapes to frame a subject or lead the viewer's eye through a scene; breaking the rule of thirds to compose a discordant image; or another advanced composition technique covered in Book 3 Mastering Photography (Activity 6, 7)

**B182040 Portrait Print: (SF89)** A great portrait captures not only a person's physical image, but also something of the person's character or personality. Photos may be either formal or informal but must be of one or more human subjects. (Activity 9)

**B182050 Still Life Print: (SF89)** Photos should capture non-moving objects that have been arranged in an interesting way. Photos should demonstrate advanced control over lighting and composition. (Activity 8)

**B182060 Freeze/Blur the Moment Print: (SF89)** Photos should capture a subject in motion. Photographers should adjust shutter speed to either freeze or blur the movement. (Activity 11)

**Classes B182970 – B182991 are NOT State Fair eligible**

**B182970 People, Places, or Pets with personality Display or Prints: (SF87)** Photos should have a strong focal point, which could be people, places, or pets. Photos should capture the subject's personality or character. Photos may be posed or un-posed. **Not State Fair eligible.**

**B182980 Black and White Display or Print: (SF87)** Photos should create interest without the use of color. Photos should show strong contrast and/or textures. Photos may be captured in black and white or captured in color and edited to black and white. **Not State Fair eligible.**

**B182990 My Favorite Other Picture Print: (SF87)** Any other favorite photo. **Not State Fair eligible.**

**B182991 Captioned Print: (SF87)** Your favorite photo enhanced with a caption. **Not State Fair eligible.**

## DEPT B / DIV 183

### SPECIAL SAUNDERS COUNTY

### PHOTOGRAPHY EXHIBIT

**(Not Eligible for State Fair)**

This division is in memory of Theresa Wilson and is sponsored by the Ashland Shamrocks 4-H Club. It is open to any 4-H member.

- Entry will be an 8 x 10 inch print mounted in 11 x 14 inch (outside size) cut matting (no frames) with a sandwich mat-board backing; rectangular or oval inside mat opening.
- The theme for this entry for 2024 is “Windmills of Saunders County”
- Exhibit prints must portray the theme and **must be taken within Saunders County.**
- Appropriate Unit Print/Display Data Tag should include the general location where the photo was taken.
- Winning photos from each class will be on display at the ENREEC / Saunders County Extension Office for one year following the Saunders County Fair.
- Enter the class that corresponds to the level of photography being entered by the youth. For example, youth enter photos into Classes B180910 to B180992, then they would enter class B183910 for this exhibit.
- If not entering other photography, pick the level of entry based on skills of the youth – see rules for each level for details.

**B183910 Level 1 – Photography Basics**

**B183920 Level 2 – Next Level Photography**

**B183930 Level 3 – Mastering Photography**



# CONSUMER & FAMILY SCIENCES

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

Guidelines are available at the front of the 4-H static exhibits section.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## CLOTHING

Participants in the clothing category will demonstrate their knowledge through the creation of garments using STEAM (science, technology, engineering, arts, and mathematics) techniques. Through the creation of garments 4-H'ers will learn more about clothing and the application of STEAM abilities. Five divisions in the clothing category offer a varying level of difficulty for 4-H contestants.

### RULES:

- 1. Entry Tags:** Every clothing exhibit must be described on the appropriate entry tag accompanying it (for example: dark blue wool skirt and jacket, red and white figured blouse). Entry tag placement: as you look at the garment place the entry tag securely using straight pins or safety pins on the right side of the garment and the hook of the hanger to the left.
- 2. Identification Labels:** Each item entered as a clothing, knitting or crochet exhibit must have a label attached stating: County, Exhibitor's name and age, project name and class in which garment is entered and the number of years enrolled in the project exhibited. Wool entries must have the fiber content listed on the identification label. Attach a label on every component of the outfit using safety pins or by basting. Not responsible for unlabeled items.
- 3. Preparation of Exhibits:** Please bring all wearable exhibits on wire hangers or hangers with a swivel hook ONLY. All exhibits not suitable for hanging should be entered in a self-sealing plastic bag and hung on a hanger. Wool garments and garments with narrow straps hang better on other hangers, i.e., wooden, or notched plastic hangers with a swivel hook. As you look at the garment, place the hook of the hanger pointing to the left. Fasten skirts, shorts and pants to skirt/pant hangers or safety pin on hanger. Each piece should be entered on its own hanger. If more than one hanger is used for an entry, fasten hangers belonging to one exhibit together with twist ties or rubber bands.
- 4. A Design Data Card** must be included with all Beyond the Needle Classes C221003-C221008 and STEAM 1, 2 and 3 upcycled exhibits. The data card is available at <http://go.unl.edu/ne4hclothing> If the data card is not included, the exhibit will be lowered one ribbon placing. **The data card is only required for the classes listed above.**
- 5. Removal of Entries:** Entries may only be removed for use in the Public Fashion Show. Items may be returned to the display or taken home following the show.
- 6. General:** Garments as listed may be made for self (4-H member) or another person. 4-H'ers enrolled in clothing projects should continue their skill development. Once you have exhibited in a higher level, you are not eligible to exhibit in a lower level. Ex. Once you exhibit in STEAM Clothing 3, you are not eligible to exhibit in STEAM Clothing 2.
- 7. Criteria for Judging:** Refer to the Nebraska 4-H website for current State Fair scoresheets at [www.4h.unl.edu](http://www.4h.unl.edu). In addition, all entries must conform to rules and regulations as set forth in the current Nebraska State Fair Book which can be found in the general rules.
- 8. A list of skills by project** is available at <https://go.unl.edu/ne4hclothing>.

Scoresheets, forms, contest study materials and additional resources can be found at <https://go.unl.edu/ne4hclothing>.

## Special State Fair Awards

- **Premier 4-H Science Award** is available in this area. Please see General Rules for more details.
- **4-H Design Gallery** - All garments and accessories will be juried to be selected for the 4-H Design Gallery at the Nebraska State Fair.
- **Make It With Wool Award** - All garments with at least 60% wool content are eligible for this award.

### Resources:

**STEAM Clothing 1: Fundamentals** - Understand the basic of sewing; Understand textiles through science experiments; Learn about how textiles are engineered into garments

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/37](https://4hcurriculum.unl.edu/index.php/main/program_project/37)

**STEAM Clothing 2: Simply Sewing** - Build upon the sewing basics learned in STEAM 1; Focus on advanced engineering techniques; Learn about finishing touches and style to garments; Learn the basics on how to build a business

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/38](https://4hcurriculum.unl.edu/index.php/main/program_project/38) **STEAM Clothing – Makers Guide to Sewing Stuff** – Use the skills learned in STEAM Clothing 1 & 2 to make stuff!

<https://shop4-h.org/products/steam-clothing-curriculum-makers-guide-to-sewing>

**STEAM Clothing 3: A Stitch Further** - Learn new technological options available in sewing; Discover the science behind textiles and fabrics; Learn about complex patterns and difficult fabrics; Market garments as a business [https://4hcurriculum.unl.edu/index.php/main/program\\_project/39](https://4hcurriculum.unl.edu/index.php/main/program_project/39) **STEAM Clothing: Beyond the Needle** - Learn design basics; Create embellishments and treatments; Learn about the art of clothing construction.

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/36](https://4hcurriculum.unl.edu/index.php/main/program_project/36)

**WearTec Curriculum** - youth solve real world problems and practice the engineering design process while immersed in the innovative area of wearable technologies. <https://shop4-h.org/collections/weartec-curriculum-series>

## DEPT C / DIV 211

### STEAM CLOTHING 1: FUNDAMENTALS

**Rules:** Exhibits must be made from medium weight woven fabrics that will sew and press smoothly; flannel/fleece is acceptable. Solid color fabrics or those having an overall print are acceptable. NO PLAIDS, STRIPES, NAPPED or JERSEY KNIT. Patterns should be simple without darts, set-in sleeves, and collars. Raglan and kimono sleeves are acceptable.

### (NOT Eligible for State Fair)

**C211901 Clothing Portfolio (SF20):** Using pages 9-11 from STEAM Clothing 1: Fundamentals as your guide create a portfolio with at least 3 of the items listed. The portfolio should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover, dividers, and table of contents.

**C211902 Sewing Kit (SF20):** Include a list of sewing notions and purpose for each included. STEAM Clothing 1: Fundamentals "Get the Notion to Sew" pages 12-17

**C211903 Fabric Textile Scrapbook (SF20):** Must include at least 5 different textile samples. Use Textile Information Cards template on page 41 in project manual to identify fabric swatches. Completed textile cards should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover. See STEAM Clothing 1: Fundamentals for fabric suggestions.

- C211904 What's the Difference (SF20):** A notebook, poster, small display (not to exceed 22 inches x 30 inches) sharing a project comparison and price point. See STEAM Clothing 1: Fundamentals, "What's the Difference?" page 118-119. Exhibits should include pictures NO actual items.
- C211905 Clothing Service Project (SF20):** Can include pillows or pillowcases but are not limited too. Exhibit (not to exceed 22 inches x 30 inches) a notebook, poster, small display sharing information you generated in the project activity STEAM Clothing 1: Fundamentals "Serving A Purpose" pages 122-125.

See **Maker's Guide to Sewing Stuff** for patterns and ideas for some of the classes below

- C211910 Simple Sewing Supplies (CF150)** Such as needle book, sewing shears sheath, pin cushion etc. (page 46) Enter only 1 item.
- C211911 Pillowcase (CF51)** Such as Snoozy Pillowcase page 34
- C211912 Simple Pillow (CF52)** No larger than 18 inches x 18 inches
- C211913 Bag/Purse (CF53)** No Zippers or buttonholes. (Page 50)
- C211914 Simple Top (CF55)**
- C211915 Simple Bottom (CF55)** Pants, shorts, or skirt
- C211916 Simple Dress (CF55)**
- C211917 Simple Kitchen Item (CF55)** Placemat, Apron, Oven Mitt etc. (pages 6-21)
- C211918 Simple Play Item (CF55)** Baggy Beans Game, Cool Crayon Roll, etc. (pages 22-29)
- C211919 Simple Fashion Accessories (CF55)** Scrunchie, headband, basic belt, etc. (pages 58-69)
- C211920 Upcycled Simple Garment (SF21):** The original used item must be redesigned (not just decorated) in some way to create a new wearable piece of clothing. A "before" picture and a description of the redesign process **must** accompany the entry, or it will be disqualified. **A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>.**
- C211921 Upcycled Accessory (SF22):** A wearable accessory made from a used item. The item used must be changed in some way in the "redesign" process. A "before" picture and a description of the redesign process **must** accompany the entry, or it will be disqualified. **A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>.**
- C211922 Clothing 1 Make One/Buy One (CF125)** — The exhibit is a purchased garment with a constructed garment(s) to make a complete, wearable outfit. Both constructed and purchased items must be included in the exhibit. An incomplete exhibit will be disqualified.

## DEPT C / DIV 212

### STEAM CLOTHING: BEYOND THE NEEDLE

#### BEGINNER

NOTE: These classes may include beginning design and technique appropriate for younger members. Entries may include kits or purchased components. Tie dyed articles should be entered here.

#### **(NOT Eligible for State Fair)**

- C212901 Beginning Original Design Garment (SF26)** A purchased, constructed, original design or recycled garment to which surface embellishment has been applied or a garment in which the design is created through the structure such as color blocks, fabric strips, texturizing fabric pieces, etc.
- C212902 Beginning Embellished Garment: (SF26):** Create a garment using beginning techniques as defined in the STEAM Clothing Beyond the Needle pages 51-71. Designs are the original idea of the 4-H'er using the elements and principles of design to make an original statement.
- C212903 Beginning Textile Clothing Accessory (SF23):** Accessory is constructed and/or decorated using techniques as defined in the project manual. Entry examples include hats, bags, scarves, gloves, aprons, etc.
- C212904 Simple Miscellaneous item: (SF23)** Item that may or may not match other items exhibited (i.e., book cover, wallet, etc.).
- C212905 Embellished Garment (SF26):** Any surface embellishment that is applied to a purchased or constructed garment such as ribbon, lace, embroidery, applique, braid, buttons, fabric pieces, including tie-dye. May use patterns or ideas from magazines. Commercial iron-on appliques or any prepackaged item where the materials are predetermined by the manufacturer will not be accepted.

## DEPT C / DIV 220 GENERAL CLOTHING

### **(Eligible for State Fair except classes 10 & 11)**

**Rules:** 4-H members in all skill levels may exhibit in this area.

- C220001 Clothing Portfolio - (SF20)** – Complete at least four different samples/activities from Chapters 2, 3 OR 4 of the **STEAM Clothing 2** project manual. The Portfolio should be placed in an 8 1/2 x 11, 3 ring binder. Include an appropriate cover. Portfolio should build upon itself each year (additional pages can be added each year but should be dated.) See pages 9-11 in STEAM Clothing 2: Simply Sewing project manual for portfolio formatting.
- C220002 Textile Science Scrapbook - (SF20)** – Must include at least 10 different textile samples. Use Textile Information Cards template on page 39 in STEAM Clothing 2: Simply Sewing project manual to identify fabric swatches. Completed textile cards should be placed in an 8 1/2 x 11, 3 ring binder. Include an appropriate cover. Textile Science Scrapbook should build upon itself each year (additional pages can be added each year but should be dated). See **STEAM Clothing 2** project manual for fabric suggestions.
- C220003 Sewing For Profit - (SF63)** - Using page 161-167 in the STEAM Clothing 2: Simply Sewing project manual, display what products you posted online and analyze the cost of goods purchased to determine the appropriate selling price for your product. The Exhibit may be a notebook, poster, or small display. Exhibits should not exceed 22 inches x 30 inches.
- C220910 Mending Exhibit (CF155)** – (Not Eligible for State Fair) Show example of how mending a piece of clothing made it wearable again. Explain steps taken to mend item and any other important information that would help the judge with your exhibit. Can be hand or machine mending. Pictures of before and after are encouraged as well as the final item.
- C220911 Alteration Exhibit (CF156)** – (Not eligible for State Fair). Show an example of how altering a purchased item made it a better fit for you. Explain steps taken to alter the clothing item and other important information that would help the judge with your exhibit. Pictures of you wearing the item before and after alteration are required as well as the final item.

## DEPT C / DIV 221

### **STEAM CLOTHING: BEYOND THE NEEDLE**

#### **ADVANCED (Eligible for State Fair)**

NOTE: These classes are for more advanced design and technique as described in the manual. 4-H'ers should execute their own ideas and creativity. Originality is important.

- C221001 Design Portfolio - (SF20)** – A portfolio consisting of at least three design samples or activities. Refer to the project manual for activity ideas. The Portfolio should be placed in an 8 1/2 x 11, 3 ring binder. Include an appropriate cover. (Additional pages can be added each year but should be dated.) See pages 14-16 for portfolio formatting.
- C221002 Color Wheel - (SF20)**– Create your own color wheel, complimentary color bar or color scheme using pages 27-39 in the project manual. The Exhibit may be a notebook, poster, or small display. Exhibits should not exceed 22 inches x30 inches.
- C221003 Embellished Garment With Original Design (Eligible for State Fair Fashion Show) - (SF26)** - Create a garment using techniques as defined in the project manual (STEAM Clothing Beyond the Needle pages 75-127). Designs are the original idea of the 4-H'er using the elements and principles of design to make an original statement. A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.
- C221004 Original Designed Fabric Yardage - (SF26)** - Fabric yardage is designed using techniques such as those found in the manual. Other embellishments may be added. Exhibit consists of at least one yard of finished fabric. A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.
- C221005 Item (garment or non-clothing item) Constructed From Original Designed Fabric - (Only garments are eligible for State Fair Fashion Show) - (SF26)** - Fabric yardage is designed first, then an item is constructed from that fabric. Other embellishments may be added. A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.

**C221006 Textile Arts Garment or Accessory - (Garment eligible for State Fair Fashion Show) - (SF26)** - A garment or accessory constructed using new unconventional materials. Examples: rubber bands, plastic, duct tape. A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.

**C221007 Fashion Accessory - (Not eligible for State Fair Fashion Show) - (SF26)** - An accessory designed and/or constructed using elements and principles of design; can be textile or non-textile based. Example: shoes, strung bracelet/necklace, wire wrapping, scarves, flip flops, design on tennis shoes, etc. A Design Data Card must be included with this project. The data card is available at <http://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.

**C221008 Wearable Technology Garment or Accessory (Garment is eligible for State Fair Fashion Show) - (SF26)** - Technology is integrated into the garment or accessory in some way (For example: LEDs, charging capabilities, sensors, etc.) A Design Data Card must be included with this project. The data card is available at <https://go.unl.edu/ne4hclothing>. If additional information is not included, the exhibit will be lowered one ribbon placing.

## DEPT C / DIV 222

### STEAM CLOTHING 2: SIMPLY SEWING

1. Exhibits entered in this project must reflect at least one new skill learned from this manual (see project manual skill-level list).
2. A list of skills by project is available at A list of skills by project is available at <https://go.unl.edu/ne4hclothing>.
3. Garments as listed below may be made from any woven or knit fabric appropriate to the garment's design and should demonstrate sewing skills beyond STEAM Clothing 1.

**(Eligible for State Fair except class 915)**

**C222001 Design Basics, Understanding Design Principles (SF20)**— 4-H members exhibit sharing a learning experience from pages 17-20 in the **STEAM Clothing 2** project manual. Include answers to questions found on page 20 of the manual. The Exhibit may be a notebook, poster, or small display. Exhibits should not exceed 22 inches x 30 inches.

**C222002 Pressing Matters (SF20)** — 4-H Members enter a ham or sleeve roll from pages 21-25 "A Pressing Matter" in the **STEAM Clothing 2** project manual. The exhibit should include answers to lesson questions that are most appropriate to include.

**C222003 Upcycled Garment - (Eligible for State Fair Fashion Show) (SF28)** — Create a garment from used textile-based items. The original used item must be redesigned using skills learned in STEAM Clothing 2 (not just decorated) in some way to create a new wearable piece of clothing. The finished garment must reflect at least one skill learned in this project. A Design Data Card must be included with this project including a "before" picture no larger than 4.25 inches x 5.5 inches. If additional information is not included, the exhibit will be lowered one ribbon placing. **A list of skills and the Design Data Card are available at <https://go.unl.edu/ne4hclothing>.**

**C222004 Upcycled Clothing Accessory - (Not eligible for State Fair Fashion Show) - (SF28)** — A wearable accessory made from a used item. The original used item must be redesigned using skills learned in STEAM Clothing 2 (not just decorated) in some way to create a new wearable accessory. The finished garment must reflect at least one skill learned in this project. A Design Data Card must be included with this project including a "before" picture no larger than 4.25 inches x 5.5 inches. If additional information is not included, the exhibit will be lowered one ribbon placing. **A list of skills and the Design Data Card are available at <https://go.unl.edu/ne4hclothing>.**

**C222005 Textile Clothing Accessory - (Not eligible for State Fair Fashion Show) - (SF28)** - Textile accessory is constructed using at least one skill learned in this project from materials appropriate for STEAM 2. A list of skills by project is available at <https://go.unl.edu/ne4hclothing>. Entry examples include hats, bags, scarves, gloves. No metal, plastic, paper or rubber base items allowed (i.e. barrettes, headbands, flip flops, duct tape, etc.)

**C222006 Top - (Not eligible for State Fair Fashion Show) - (SF28)** - (vest acceptable)

**C222007 Bottom - (Not eligible for State Fair Fashion Show) - (SF28)** - (pants or shorts)

**C222008 Skirt - (Not eligible for State Fair Fashion Show) (SF28)**

**C222009 Lined or Unlined Jacket - (Not eligible for State Fair Fashion Show) - (SF28)**

**C222010 Dress - (Eligible for State Fair Fashion Show) - (SF28)** - (not formal wear)

**C222011 Romper or Jumpsuit - (Eligible for State Fair Fashion Show) - (SF28)**

**C222012 Two-Piece Outfit - (Eligible for State Fair Fashion Show) - (SF28)**

**C222013 Alter Your Pattern - (SF28) - (Eligible for State Fair Fashion Show)** in the class that best describes the type of garment constructed i.e., Dress, Romper or Jumpsuit, or Two-piece Outfit) - Garment constructed from a significantly altered pattern. Entry must include both the constructed garment and the altered pattern. Include information sheet that describes: 1) how the pattern was altered or changed, 2) why the changes were needed/wanted. Appropriate skills for altering/designing a pattern in STEAM 2 include: moving darts, merging two patterns together, altering a pattern for a woven or knit material, adding a lining)

**C222014 Garment Constructed from Sustainable or Unconventional [natural or synthetic] fibers (SF28)** - (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e., Dress, Romper or Jumpsuit, or Two-piece Outfit) - (SF32) - Fabric/Fibers used in this garment have to be manufactured/purchased, for example: bamboo, banana, corn husk, and recycled fibers. Garments that are constructed out of the unconventional items themselves should be exhibited under Beyond the Needle.

**C222915 Clothing 2 Make One/Buy One (Not eligible for State Fair) (CF125)** — The exhibit is a purchased garment with a constructed garment(s) to make a complete, wearable outfit. Both constructed and purchased items must be included in the exhibit. An incomplete exhibit will be disqualified.

## DEPT C / DIV 223

### STEAM CLOTHING 3: A STITCH FURTHER

1. Exhibits entered in this project must reflect at least one new skill learned from this manual (see project manual skill-level list).
2. A list of skills by project is available at <http://go.unl.edu/ne4hclothing>.
3. Garments as listed may be made from any pattern or any fabric and should demonstrate sewing skills beyond STEAM Clothing 2. Entry consists of completely constructed garments only.
4. Wool entries must have the fiber content listed on the identification label.

**(Eligible for State Fair except class 913)**

**C223001 Upcycled Garment - (Eligible for State Fair Fashion Show) - (SF28)** Create a garment from used textile-based items. The original used item must be redesigned (not just decorated) in some way to create a new wearable piece of clothing. The finished garment must reflect at least one skill learned in this project. A list of skills by project is available at <http://go.unl.edu/ne4hclothing>. A Design Data Card must be included with this project including a "before" picture no larger than 4.25 inches x 5.5 inches. The data card is available at <http://go.unl.edu/ne4hclothing>.

**C223002 Upcycled Clothing Accessory - (Not eligible for State Fair Fashion Show) - (SF28)** — A wearable accessory made from a used item. The item used must be changed in some way in the redesign process. The finished accessory must reflect at least one skill learned in this project. A list of skills by project is available at <http://go.unl.edu/ne4hclothing>. A Design Data Card must be included with this project including a "before" picture no larger than 4.25 inches x 5.5 inches. The data card is available at <http://go.unl.edu/ne4hclothing>.

**C223003 Textile Clothing Accessory - (Not eligible for State Fair Fashion Show) - (SF28)** - Textile accessory is constructed using at least one skill learned in this project from materials appropriate for STEAM 3. A list of skills by project is available at <http://go.unl.edu/ne4hclothing>. Entry examples include hats, bags, scarves, gloves. No metal, plastic, paper, or rubber base items allowed (i.e., barrettes, headbands, flip flops, duct tape, etc.)

**C223004 Dress or Formal - (Eligible for State Fair Fashion Show) - (SF28)**

**C223005 Skirted Combination - (Eligible for State Fair Fashion Show) - (SF28)** - (skirt with shirt, vest or jacket OR jumper and shirt)

**C223006 Pants or Shorts Combination - (Eligible for State Fair Fashion Show) - (SF28)** - (pants or shorts with shirt, vest, or jacket)

**C223007 Romper or Jumpsuit - (Eligible for State Fair Fashion Show) - (SF28)**



- C223008 Specialty Wear - (Eligible for State Fair Fashion Show) - (SF28)** - (includes swim wear, costumes, hunting gear, or chaps)
- C223009 Lined or Unlined Jacket - (Eligible for State Fair Fashion Show) - (SF28)** - (non-tailored)
- C223010 Coat, Blazer, Suit Jacket or Outerwear - (Eligible for State Fair Fashion Show) - (SF28)** - A tailored blazer or suit jacket or coat. Wool entries must have the fiber content listed on the identification label to be considered for the Make It With Wool Award.
- C223011 Alter/Design Your Pattern - (SF28)** - (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e., Dress, Romper or Jumpsuit, or Two-piece Outfit) – Garment constructed from a significantly altered pattern. Entry must include both the constructed garment and the altered pattern. Include information sheet that describes: 1) how the pattern was altered or changed, 2) why the changes were needed/wanted. Appropriate skills for altering/designing a pattern in STEAM 3 include: moving darts, adding a zipper, merging two patterns together, altering a pattern for a woven or knit material, adding a lining, designing your own pattern).
- C223012 Garment Constructed from Sustainable or Unconventional [natural or synthetic] fibers (SF28)** - (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e., Dress, Romper or Jumpsuit, or Two-piece Outfit) (SF32) - Fabric/Fibers used in this garment must be manufactured/purchased, for example: bamboo, banana, corn husk, and recycled fibers. Garments that are constructed out of the unconventional items themselves should be exhibited under Beyond the Needle.
- C223913 Clothing 3 Make One/Buy One (Not eligible for State Fair) (CF125)** — The exhibit is a purchased garment with a constructed garment(s) to make a complete, wearable outfit. Both constructed and purchased items must be included in the exhibit. An incomplete exhibit will be disqualified.

## SHOPPING IN STYLE

Identify your body shape and select clothing to enhance it; Learn how clothing prices are determined and how to comparisons shop; Analyze advertising; Experiment with removing stains;

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/41](https://4hcurriculum.unl.edu/index.php/main/program_project/41)

**See My Financial Future (Finance & Entrepreneurship) for more consumer management options.**

### GENERAL INFORMATION:

If the exhibit is a poster, it should be 14 x 22 inches poster board. If a three-ring binder is used should be 8 ½ x 11 x 1 inch. Video exhibits should be less than 5 minutes in length and be able to be played on a PC using Windows Media Player, Real Player, or Quick Time Player.

## DEPT C / DIV 240 SHOPPING IN STYLE

**C244901 Clothing Wardrobe Inventory: (CF118)** (Not eligible for State Fair) List five items in your clothing wardrobe. What one garment would you add to your wardrobe that would help you to mix and match what you already must extend your wardrobe? Explain what you need to think about and consider when you select this item. Consider creativity and style in your story. Create a photo story which includes before and after photos and a description of what was done. Put in a binder, poster, or video (see general information)

**C244902 Clothing Interview (CF118): (Not eligible for State Fair)** Select one of the following options.

- Interview an older person and talk about the fads and fashions of the time when they were young,
- Interview a person from another culture and find out how their dress and fashions may differ at school, special occasions (such as weddings, graduations, birthdays, religious events), etc. How do those items differ or are they the same as what you wear?
- Interview a person who wears special types of clothing for their job. Find out how these clothes differ from the ones they wear away from the job, what makes them different, why are they necessary to wear, etc.

Consider creativity and style in your story. Include a picture of the person you interviewed in their special type of clothing. Your interview entry may be a picture poster, a written story, CD, or DVD with explanation.

**C240001 Best Buy for Your Buck: (SF84)** (Ages 8-13 before January 1 of the current year) - Provide details of the best buy you made for your buck this year. Consider building the ultimate wardrobe by adding to this entry each year by dividing it into Year 1, Year 2, Year 3, etc. Put the story in a binder or video, no posters please (see general information above). Do not include the Shopping In Style Fashion Show Information Sheet in your entry for this class. Provide details about wardrobe inventory which indicates the following:

- Why you selected the garment you did
- Clothing budget
- Cost of garment
- Conclusion or summary statement(s) stating your final comments on why you selected your "best buy for your buck."
- Provide 3 color photos of you wearing the garment - front view - side view - back view

**C240002 Best Buy for Your Buck: (SF84)** (Ages 14-18 before January 1 of the current year) Provide details of the best buy you made for your buck this year. Consider building the ultimate wardrobe by adding to this entry each year by dividing it into Year 1, Year 2, Year 3, etc. Put the story in a binder or video, no posters please (see general information above). Do not include the Shopping In Style Fashion Show Information Sheet in your entry. **Provide details listed for CLASS C240001 plus include the following additions:**

- Body shape discussion
- Construction quality details
- Design features that affected your selection
- Cost per wearing
- Care of garment
- Conclusion or summary statement(s) stating your final comments on why you selected your "best buy for your buck."
- Provide 3 color photos of you wearing the garment - front view - side view - back view

**C240003 Revive Your Wardrobe: (SF88)** Take at least two items in your wardrobe that still fit but that you don't wear anymore and pair them with a new garment or garments to make them wearable once again. Create a photo story which includes before and after photos and a description of what was done. Put in a binder, poster, or video (see general information)

**C244903 Clothing Wardrobe Inventory: (CF118)** (Not eligible for State Fair) List five items in your clothing wardrobe. What one garment would you add to your wardrobe that would help you to mix and match what you already must extend your wardrobe? Explain what you need to think about and consider when you select this item. Consider creativity and style in your story. Create a photo story which includes before and after photos and a description of what was done. Put in a binder, poster, or video (see general information)

**C240004 Show Me Your Colors: (SF89)** Select 6-8 color photos of you wearing different colors. Half should be what you consider to be good personal color choices and half should be poor personal color choices. Write a brief explanation with each photo describing your selections. Refer to the manual page 23 for more information. Entry should be a poster (see general information).

**C240005 Clothing 1st Aid Kit: (SF64)** Refer to page 73 of the manual and complete a clothing first aid kit. Include a list of items in the kit and brief discussion of why each was included. Put in an appropriately sized box or tote with a lid. No larger than a shoe box.

**C240006 Mix, Match, & Multiply: (SF90)** Using this concept from page 32 of the manual take at least 5 pieces of clothing and create new outfits. Use your imagination to show various looks (i.e., on a clothesline, in a tree, on a mannequin). Include a brief discussion of each outfit which demonstrates what you have learned by completing this entry. Entry can be a binder, poster, or video (see general information).

**C240920 \$15.00 Outfit Challenge – (CF\$15S)** (Not Eligible for State Fair) Outfits **must** be selected and purchased from garage sale, thrift store, consignment store or resale shop (such as Goodwill, Salvation Army) Cost of outfit must be \$15.00 or less, not including shoes, accessories, or undergarments. Turn in a notebook or poster detailing where it was purchased, cost & why selected (there is a form that can be used to assist with questions to answer) as well as pictures of you wearing the outfit. **Please enter only the notebook or poster.**

# KNITTING & CROCHET

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

# KNITTING & CROCHET

The purpose of this category is to establish basic to advanced crochet and knitting skills. In addition, projects in this category require 4-H'ers to select adequate yarn and make design decisions.

## General Rules:

1. **Entry Tags:** Every exhibit must be described on the appropriate entry tag accompanying it (for example: blue afghan, yellow sweater, crocheted gray elephant). Attach the entry tag securely to the exhibit using straight pin or safety pins (no paper clips).
2. **Identification Labels:** Each item entered as a knitting or crochet exhibit must have a label attached stating: County, Exhibitor's name and age, project name and class in which exhibit is entered, and the number of years enrolled in the project exhibited. Wool entries must have the fiber content listed on the identification label. Attach a label to every component of the exhibit using safety pins or by basting. Not responsible for unlabeled items.
3. **Preparation of Exhibits:** Knitted and Crocheted exhibits should be entered in the most appropriate manner for the exhibit.
4. **Removal of Entries:** Entries may not be removed for use in any other State Fair activity including State Fair Fashion Show.
5. **General:** Garments as listed may be made for self (4-H member) or another person. All knitted and crocheted items will be displayed together or by county. 4-H'ers enrolled in knitted and crocheted projects should continue their skill development. Once you have exhibited in a higher level, you are not eligible to exhibit in a lower level. Ex. Once you exhibit in Knitting Level 3, you are not eligible to exhibit in Knitting Level 2.

## Resources:

**Knitting** – Learn about types of yarn and yarn weights; Develop basic to advanced knitting skills; Combine knitting with garment making.

Knit with double-pointed needles

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/45](https://4hcurriculum.unl.edu/index.php/main/program_project/45)

**Crochet** – Learn basic to advanced crochet stitches; Select yarn/thread for crocheting; Learn about blocking and changing colors; Design a new stitch or pattern; Work with other media such as leather, wood, and beads

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/44](https://4hcurriculum.unl.edu/index.php/main/program_project/44)

**Scoresheets,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hknitting-crocheting>

## Special State Fair Awards

- **Premier 4-H Science Award** is available in this area. Please see General Rules for more details.
- **4-H Design Gallery** - All garments and accessories will be juried to be selected for the 4-H Design Gallery at the Nebraska State Fair.
- **Make It With Wool Award** - All garments with at least 60% wool content are eligible for this award.

## DEPT C / DIV 225 KNITTING

### Rules:

1. Criteria for judging knitting: Design and Color, Neatness, Knitting Mechanics, Trimmings, and Constructions Finishes.
2. Each knitted exhibit must include the following information **on the fiber arts data card** with the entry tag or exhibit will be lowered one ribbon placing. **A Fiber Arts knitting data card is available at <https://go.unl.edu/ne4hclothing>**
  - Why did you choose to create this exhibit?
  - What steps did you take as you created this exhibit?
  - What were the most important things you learned?
  - Gauge-Number of rows per inch; number of stitches per inch.
  - Size of needles, finger knitted, arm knitted, loom or machine knitted
  - Kind of yarn – weight and fiber content.
  - Names of stitches used.

**C225910 Level 1 Knitted Clothing Item #1 (SF60) (NOT Eligible for State Fair)** Examples include: Slippers, Mittens, Hat or Head Cover, Mittens, Neck Scarf, etc.

**C225911 Level 1 Knitted Clothing Item #2 (SF60) (NOT Eligible for State Fair)** Examples include: Slippers, Mittens, Hat or Head Cover, Mittens, Neck Scarf, etc.

**C225912 Level 1 Knitted Home Design & Restoration Item #1 (SF60)** (Not Eligible for State Fair) Examples include: dish cloth/dish towel, pillow, toy.

**C225913 Level 1 Knitted Home Design & Restoration Item #2 (SF60)** (Not Eligible for State Fair) Examples include: dish cloth/dish towel, pillow, toy.

**C225914 Level 1 Arm or Finger Knitted Item (SF60)** (Not Eligible for State Fair) – Clothing or Home **Design & Restoration** Item

**C225915 Level 1 Loom Knitted Item (SF60)** (Not Eligible for State Fair) Clothing or Home **Design & Restoration** Item

**C225001 Level 2 Knitted Clothing (Garment eligible for State Fair Fashion Show) (SF60)** Knitted item or garment using pattern stitches such as diamond, block, twist, or seed/moss stitches. Basic stitches [including Knit (K), Purl (P), Slip Knit Pass Over (SKPO), Knit Two Together (K2tog), Yarn Over (yo)] to form patterns.

**C225002 Level 2 Knitted Home Design & Restoration Item: (SF60)** Knitted Item using basic stitches [including: Knit (K), Purl (P), Slip Knit Pass Over (SKPO), Knit Two Together (K2tog), Yarn Over (yo)] to form patterns.

**C225003 Arm or Finger Knitted Item (SF60)** (Clothing or Home **Design & Restoration** Item)

**C225004 Loom Knitted Item (SF60)** (Clothing or Home **Design & Restoration** Item)

**C225005 Level 3 Knitted Clothing (SF60) (Garment eligible for State Fair Fashion Show)** Knitted item or garment made from advanced knitting stitches such as pass slip stitch over, double-pointed needle knitting, cable, Turkish, tamerna, plait, germaine, feather and fan or knitting with one or more patterns such as Aran or Fair Isle made by using stitches learned in Level 2 while advancing to circular knitting, double pointed needle knitting, knitting with multiple pattern stitches, and changing colors throughout the garment such as argyle knitting and chart knitting.

**C225006 Level 3 Knitted Home Design & Restoration Item (SF60)** Knitted item made by using stitches learned in Level 2 while advancing to circular knitting, double pointed needle knitting, knitting with multiple pattern stitches, and changing colors throughout the garment such as argyle knitting and chart knitting.

**C225007 Level 3 Machine Knitting (SF60)**

**C225920 Knitted Make One/Buy One (Not eligible for State Fair) (CF125)** — The exhibit is a purchased garment with a knitted garment(s) to make a complete, wearable outfit. Both knitted and purchased items must be included in the exhibit. An incomplete exhibit will be disqualified.

## DEPT C / DIV 226 CROCHET

### Rules:

1. Criteria for judging crochet: Design and Color, Neatness, Crochet Mechanics, Trimmings, and Construction Finishes.
2. Each crocheted exhibit must include the following information on the fiber arts data card with the entry tag or exhibit will be lowered one ribbon placing: A Fiber Arts crochet data form is available at

<https://go.unl.edu/ne4hclothing>

- Why did you choose to create this exhibit?
- What steps did you take as you created your exhibit?
- What were the most important things you learned?
- Gauge and size of hook or type of crocheting tool.
- Kind of yarn - weight and fiber content or other material used.
- Names of stitches used.

**C226910 Level 1 Crocheted Clothing Item # 1 (SF61) (NOT Eligible for State Fair)** Examples include: Slippers, Mittens, Hat or Head Cover, Neck Scarf, etc.

**C226911 Level 1 Crocheted Clothing Item # 2 (SF61) (NOT Eligible for State Fair)** Examples include: Slippers, Mittens, Hat or Head Cover, Neck Scarf, etc.

**C226912 Level 1 Crocheted Home Design & Restoration Item #1 (SF61) (NOT Eligible for State Fair)** Examples include: Simple Pillow, Dish Cloth/Towel, Toy.

**C226913 Level 1 Crocheted Home Design & Restoration Item #2 (SF61) (NOT Eligible for State Fair)** Examples include: Simple Pillow, Dish Cloth/Towel, Toy.

**C226001 Level 2 Crocheted Clothing (SF61)** (Garment eligible for State Fair Fashion Show) Crochet garment using basic stitches [including: chain, single, double, half-double, treble] to form patterns

**C226002 Level 2 Crocheted Home Design & Restoration Item (SF261)** Crochet item using basic stitches [including: chain, single, double, half-double, treble] to form patterns

**C226003 Level 3 Crocheted Clothing (SF61)** (Garment eligible for State Fair Fashion Show) Crochet garment using stitches learned in Level 2 while advancing to use afghan stitch, broomstick lace, hairpin lace, design motifs, and multiple pattern stitches.

**C226004 Level 3 Crocheted Home Design & Restoration Item (SF61)** Crochet item using stitches learned in Level 2 while advancing to use afghan stitch, broomstick lace, hairpin lace, design motifs, and multiple pattern stitches.

**C226920 Crocheted Make One/Buy One (Not eligible for State Fair) (CF125)** — The exhibit is a purchased garment with a crocheted garment(s) to make a complete, wearable outfit. Both crocheted and purchased items must be included in the exhibit. An incomplete exhibit will be disqualified



# QUILT QUEST

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

# QUILT QUEST

In Quilt Quest, 4-H'ers learn skills as they progress through the project. The least experienced 4-H exhibitor will select fabric, cut, and sew together only squares or rectangles in making the quilt top. They may have additional guidance in piecing the quilt block and layering together the quilt top. They may have additional guidance in piecing the quilt block and layering together the quilt top, inner batting, and the quilt bottom. Another person can do the quilting for them.

In the Premier class, the 4-H'er has developed skills to be able to do all the work by himself/herself. This includes pattern and fabric selection, cutting and sewing individual pieces, layering the quilt top/batting/backing together, and quilting. Quilting may be done by hand, by sewing machine or by a commercial-grade quilting machine. After quilting, the 4-H'er must finish the quilt by "squaring it up," put binding on the edge and placing a label on the quilt which provides details about the quilt making process for historical purposes.

## Rules:

- A. All entry cards and support information must be attached using a safety pin. **No straight pins.**
- B. When judging Quilt Quest exhibits, the judges consider **SF209** "Standards for Judging Quilts and Quilted Items."
- C. For all classes, 4-H'ers can choose fabrics for the quilt by selecting fabric from fabric bolts. 4-H'ers may also use "fabric collections: offered by manufacturers in a particular designer or fabric line. Examples of fabric collections include:
  - o **Jelly Rolls** are made of up to 40 different strips of 2 ½ inch wide fabric laying on top of one another and rolled up to look like a jelly roll. The fabric is created by one designer or fabric line and compliments each other. In many cases, less skilled 4-H'ers find it difficult to cut narrow strips with a rotary cutter and ruler, so this fabric selection may make it easier as they learn.
  - o **Honey Buns** are made like the Jelly Rolls with 1 ½ inch strips of fabrics.
  - o **Layer Cakes** are 10 inch squares of fabric from a manufactured designer or fabric line with different pieces of fabric "layered" on top of one another to look like a piece of cake.
  - o **Charm Packs** are made of 5 inch squares of coordinating fabric and may be tied up with a string or scrap of fabric.
  - o **Candies** are 2.5 inch squares of fabric from a manufactured designer or fabric line.
  - o **Turnover** is a collection of coordinating fabrics that are cut into 6 inch triangles.
  - o **Fat Quarters** are ½ yard cuts of fabric which are cut in half to make a rectangle that is approximately 18 inches x21 inches. (One half yard of fabric yields 2 fat quarters). The "fat quarter" can be more economical to purchase for a smaller quilt because the purchaser does not have to buy the entire yardage width.
  - o **Fabric Kit** is a collection of fabrics cut in large pieces to accommodate the requirements of a particular quilt pattern. The 4-H'er must cut out all the smaller squares, rectangles, etc. to make the quilt top according to the pattern directions.
- D. After fabric selection youth can use a variety of tools for cutting the fabric and completing the quilt. Cutting into pattern pieces may include hand roller die cutting machines that cut particular shapes which can be appliqued to fabric. This is allowed in the construction of the quilt.

- o A quilted exhibit is made up of at least 3 layers. Exhibits must be quilted or tied through all layers.
- o Fleece blankets are not eligible in this division.
- o Quilts must have a permanent label on the back in the bottom right corner with the quilter's name and date of completion.

**Scoresheets**, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hquilting>

**Resources: Quilt Quest** - Learn about design elements, design principles, and applications; Construct a quilt from start to finish; Explore quilt science applications in other media  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/46](https://4hcurriculum.unl.edu/index.php/main/program_project/46)

## DEPT C / DIV 229 Barn Quilts

**Rules:** Supporting information is required for this exhibit. Information must also include elements or principles of design used and steps taken to complete the project. *Please note this is the Home Design & Restoration Information Sheet. Exhibits without supporting information will be dropped a ribbon placing.*

**C229021 Barn Quilt created that is less than 4 feet x4 feet: (SF208B)**  
Made of any medium.

**C229022 Barn Quilt created that is 4 feet x4 feet or larger: (SF208B)**  
Made of any medium.

## DEPT C / DIV 229 Exploring Quilts

**C229010 Exploring Quilts: (SF208C)** Illustrate some aspect of quilts or quilt making. Examples include, but are not limited to language arts, quilts of different cultures, chemistry, design, preservation, history, construction, math-conversion of quilt patterns, textiles/fabrics, computerization, entrepreneurship. History may include history of an old quilt or history/research of a particular style of quilt such as Baltimore album quilts or Amish quilts. Exhibit may be a 14 x 22 inch poster, notebook, CD, PowerPoint, Prezi, DVD, YouTube, or other technique. All items in an exhibit must be attached together and labeled. NO quilted items should be entered in this class.

**C229030 Computer Exploration: (SF208C)** Poster or notebook with a minimum of six computer generated quilt designs or color variations on a quilt design. Include information on type of program used, process used to generate designs, or how you used color to create different quilt designs. Size of poster or notebook to be suitable for the exhibit.

## DEPT C / DIV 229 Quilt Design Other than Fabric

**Rules:** Supporting information is required for this exhibit. Information must also include elements or principles of design used and steps taken to complete project. *Please note this is in the Home Design & Restoration Information Sheet. Exhibits without supporting information will be dropped a ribbon placing.*

**C229020 Quilt Design Other than Fabric: (SF208B)** Two- or three-dimensional item with quilt design made using medium other than fabric, stained glass, paper, etc.

## DEPT C / DIV 229 Quilted Exhibits

### Rules:

- Please note the description of classes. They denote the degree of difficulty in construction and not the number of years in the project.
- A quilted exhibit consists of 3 or more layers.
- All quilted exhibits must be quilted (machine or hand) or tied.
- All quilt piecing and finishing must be the sole work of the 4-H member.
- Quilting, whether machine or hand quilted, may be done by another individual, except for the Premier Quilt class.
- No pre-quilted fabric may be used.
- Wall quilts must have a hanging sleeve on the back of the quilt or some method for hanging.
- All quilted exhibits must be clean and finished for intended purpose.
- On a half sheet of 8 1/2 x 11-inch paper, include an explanation answering the following questions:
  - How did you select the design and fabrics including whether you used a kit, jelly roll, charm squares, etc.?
  - What did you do and what was done by others?
  - What did you learn you can use on your next project?

**C229040 Wearable Art: (SF208A)** Quilted clothing or accessory which must have a recognizable amount of quilting and may include fabric manipulation. Quilting must be done by 4-H member. On a half sheet of 8 1/2 x 11 inch paper, tell how you selected the design and fabrics including whether you used a kit, jelly roll, charm squares, etc.

**C229041 Inter-Generational Quilt: (SF208E)** A quilt made by a 4-H member and family members or friends of different generations. On a half-sheet of 8 1/2 x 11 inch paper, include an explanation answering the following questions: A) How was the quilt planned and who did what in the construction of the quilt? B) How did you select the design and fabrics including whether you used a kit, jelly roll, charm squares, etc.?

**C229042 Service Project Quilt: (SF208D)** A quilt constructed by a 4-H member or group to be donated to a worthy cause. On a half sheet of 8 1/2 x 11-inch paper, include an explanation answering the following questions: A) Why was the quilt constructed and who will receive the donated quilt? B) How did you select the design and fabrics used including whether you used a kit, jelly roll, charm squares, etc.? C) What did you do and what was done by others?

**Level I Quilt Exhibits** - Pieced quilts made up of squares and/or rectangles. (SF208A)

**C229050 Small:** length + width = less than 60 inches. This size includes miniature quilts, wall hangings, table runners, placemats (4), and pillows. All items must be quilted. Pillows must have a quilted top, not just pieced patchwork.

**C229051 Medium:** length + width = 61 inches to 120 inches

**C229052 Large:** length + width = over 120 inches

**Level II Quilt Exhibits** - In addition to squares and/or rectangles, quilts may have triangles, and/or may be embroidered. (SF208A)

**C229060 Small:** length + width = less than 60 inches. This size includes miniature quilts, wall hangings, table runners, placemats (4), and pillows. All items must be quilted. Pillows must have a quilted top, not just pieced patchwork.

**C229061 Medium:** length + width = 61 inches to 120 inches

**C229062 Large:** length + width = over 120 inches

**Level III Quilted Exhibits** - In addition to any of the methods in classes 50–62, quilts may have curved piecing, applique, Celtic style, stained glass style, paper piecing, art quilt style (An art quilt is an original exploration of a concept or idea rather than the handing down of a "pattern". It experiments with textile manipulation, color, texture and/or a diversity of mixed media. An Art Quilt often pushes quilt world boundaries), or other non-traditional styles.

**C229070 - Small** - length + width = less than 60 inches. This size includes miniature quilts, wall hangings, table runners, placemats (4), and pillows. All items must be quilted. Pillows must have a quilted top, not just pieced patchwork.

**C229071 - Medium** - length + width = 61 inches to 120 inches

**C229072 - Large** - length + width = over 120 inches

## DEPT C / DIV 229 Premier Quilt

**Rules:** Entire quilt is the sole work of the 4-H'er, including quilting (hand or machine). The youth may receive guidance but no one else may work on the quilt. Tied quilts are not eligible for this class. (SF208A)

**C229080 Hand quilted**

**C229081 Sewing machine quilted**

**C229082 Long arm quilted – non-computerized/hand guided.**

**C229083 Long arm quilted – computerized**

## DEPT C / DIV 229 Other Quilt Exhibits

*(Not eligible for State Fair)*

**C229901 Photography (SF208C):** Photographs of a quilt or quilts. May be part of a history of one quilt, showing the quilt and quilt maker or may be a series of photographs taken at a quilt show or another event. Captions are encouraged. Mount of poster board, black preferred, in size appropriate for the photos and exhibit.

**C229902 My First Quilt: (SF208A)** 4-H'er may enter their first effort at quilting in this class, any size.

**C229903 One Block Project: (SF208A)** Fabric block made and finished, with a border, into a table mat or other small project.

**C229904 Hand Quilting: (SF208A)** Small project on plain fabric, finished into a usable item, hand quilted by the 4-H'er. Templates may be used for the quilt design, or they may be hand drawn or traced from other sources. May make into a pillow, wall hanging or other finished item.

**C229905 Community Service (SF208D):** Photograph of 4-H'ers and the quilt or quilts they made as a community service project. Indicate where or to whom the quilt or quilts were given.

# HOME DESIGN & RESTORATION

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## HOME DESIGN & RESORATION

The purpose of Home Design & Restoration is to learn design principles and develop graphic design techniques. In addition, activities in this category encourage well-thought-out design plans and diverse artistic techniques. Be sure to take note of the rules section to develop a successful project.

### Rules:

#### A. HOME DESIGN & RESTORATION EXHIBITS are evaluated by these criteria:

- Items must be designed to be used for home decorating, home furnishing or home management (no clothing, purses, note cards, scrapbooks/photo albums, etc.)
  - Accessories should be of high quality (as compared to quick, simple crafts), suitable for use in the home for several months throughout the year. **Holiday specific items are discouraged in division 257 but can be entered in class C252917.** Exhibits made from kits are also discouraged in Division 257 as kits limit decision making in the design process.
  - Items should show creativity and originality, along with the application of design elements and principles. Youth are required to include the design elements and principles they used along with simple explanation of how they designed their project with their exhibit.
  - Entered in correct class: What medium was changed or manipulated? What medium is the majority of your exhibit made from?
  - Items should be ready for display in the home (pictures framed, wall hangings and pictures ready to hang, etc.). No single matt board or artist canvas panels allowed. Wrapped canvas (if staples not visible on edge) is accepted without framing. **MAKE SURE HANGERS ARE STRONG ENOUGH TO SUPPORT THE ITEM!** Command strips are not adequate hangers
  - Items should *not* be ones made for beginning level or other projects (ex: simple (10 minute) table runners or woodworking). Exhibits from the beginning level project, Design My Place are county only and designed for beginners.
- B. **SIZE OF EXHIBITS:** Exhibits may be no taller than 7 feet and no wider than 6 feet. All exhibits must be easily lifted by two people.
- C. **NUMBER OF ENTRIES:** One entry per exhibitor per class. For State Fair – only 2 entries per exhibitor may qualify.
- D. **ENTRY TAGS:** An entry tag which includes a clear description of the entry must be securely attached to each exhibit. Use color, pattern, or picture descriptions to aid in identification. No straight pins.
- E. **IDENTIFICATION:** In addition to the entry tag, a label with the exhibitor's name and county should be attached to EACH separate piece of the exhibit.

#### F. SUPPORTING INFORMATION: Supporting information is required for all exhibits. Information must include the elements and principles of design used and steps taken to complete project. Tag templates can be found at <https://go.unl.edu/ne4hhomeenvironment>.

Exhibits without supporting information will be dropped a ribbon placing.

**Scoresheets, Forms, and Contest Study Materials** and additional resources can be found at <https://go.unl.edu/ne4hhomeenvironment>.

#### Resources:

Apply color and design principles using different materials to make and display objects for your home; Develop original designs; Plan a comfortable, clean, attractive home; Make connections between visual arts and other disciplines; Explore ways to make your house more green; Learn new painting techniques; Design or select furniture, fabric, and storage items for your room; Accessorize a room-design or select unique items such as wall art, wall arrangements, or lamps; Recognize factors that make antiques valuable; Refurbish and restore heirloom or heritage furnishings and accessories; Preserve family heirlooms

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/48](https://4hcurriculum.unl.edu/index.php/main/program_project/48)

**\*\*Check out Visual Arts and Expressive Arts for more classes.**

## DEPT C / DIV 252 DESIGN MY PLACE

### (NOT Eligible for State Fair)

All entries must include supporting information. **Items must be made for the home.**

**C252901 Needlework Item (SF200):** made with yarn or floss

**C252902 Simple Home Item (SF200):** pillow, laundry bag, pillowcase, table runner, etc.

**C252903 Batik Item (SF200):** made with original batik

**C252904 Wooden Simple Item (SF200):** made using wood

**C252905 Plastic Simple item (SF200):** made using plastic

**C252906 Glass Simple item (SF200):** made using glass

**C252907 Clay simple item (SF200):** made using clay

**C252908 Paper Simple item (SF200):** made using paper

**C252909 Metal Simple item (SF200):** made using metal tooling or Metal punch

**C252910 Storage item (SF200):** made or recycled

**C252911 Bulletin or message board (SF200)**

**C252912 Problem Solved (SF201):** Use creative method to show how you solved a problem (air quality, water, sound, temperature, lighting, fire escape plan, etc.)

**C252913 Video (SF201):** showing how to make a bed or organize a room

**C252914 Pinterest Home Item (SF200):** Project inspired by Pinterest.

Include inspiration in documentation

**C252915 Tie Dye Item (SF200):** made for the home, no clothing

**C252916 Windchime (SF200)**

**C252917 Holiday Home Decoration (SF200)**

## DEPT C / DIV 257 DESIGN DECISIONS

**Rules:** Supporting information is required for all exhibits. Information must include the elements and principles of design used and steps taken to complete the project. Tag templates can be found at <https://go.unl.edu/nea4homeenvironment>. Exhibits without supporting information will be dropped a ribbon placing.

**C257001 Design Board for a Room: (SF201)** Include color scheme, wall treatment, floor treatment, etc. OR floor plan for a room – Posters, 22 inches x 28 inches or multimedia presentation (on CD). Show what you learned with before and after pictures or diagrams, samples, story cost comparisons, optional arrangements, etc.

**C257002 Problem Solved Energy Savers or Career Exploration: (SF201)** Identify a problem (such as problem window, storage needs, inconvenient room arrangement, cost comparison energy conservation, waste management, etc.) OR explore a career related to home environment. (What would it be, what education is needed, what would you do, etc.) Using poster, notebook, multimedia presentation (on CD) or other method, describe the problem and how it was solved OR your career exploration. (p. 74-93)

**C257003 Solar, Wind, or Other Energy Alternatives for the Home: (SF201)** Can be models, either an original creation or an adaptation of kit. If kit, label and explain what was learned and how the item could be used in or on exterior of home. (p.74- 93)

**C257004 Technology in Design: (SF200)** Incorporate technology into a project related to home environment; for example, using conductive thread to create a circuit that enhances a wall hanging.

**C257006 Window Covering: (SF200)** May include curtains, draperies, shades, shutters, etc.

**C257007 Floor Covering: (SF200)** May be woven, braided, painted floor cloth, etc. – enter the item created.

**C257008 Bedcover: (SF200)** May include quilt, comforter, bedspread, dust ruffle, pillow sham, canopy, etc. For quilts, state who did the quilting. (NO fleece tied exhibits) (p.50-53)

**C257009 Accessory - Original Needlework/Stitchery: (SF200)**

**C257010 Accessory – Textile - 2D: (SF200)** (tablecloth or runner, dresser scarf, wall hanging, etc. No tied fleece blankets or beginning/10-minute table runners)

**C257011 Accessory – Textile - 3D: (SF200)** (pillows, pillow shams, fabric bowls, no fleece tied exhibits, etc.)

**C257012 Accessory – 2D: (SF200)** Must be flat. A two-dimensional object is an object with just height and width, and without depth.

**C257013 Accessory – 3D: (SF200)** (string art, wreaths, etc.)

**C257014 Accessory – Original Floral Design (SF200)**

**C257920 Recycled/Upcycled 4-H Ribbons – create an item for the home using 4-H ribbons or rosettes. Examples include wall hanging, frames, quilts and more. Use your imagination. Item must be made of at least 50% ribbons, your choice for remainder of materials. \*Make sure to see if eligible for a state fair class instead of this one. (Not eligible for State Fair)**

*For classes 15-18, determine entry by what medium was manipulated.*

**C257015 Accessory – Original made from Wood: (SF200)** burn, cut, shape, or otherwise manipulate

**C257016 Accessory – Original made from Glass: (SF200)** etch, mosaic, stain, molten or otherwise manipulate

**C257017 Accessory – Original made from Metal: (SF200)** cut, shape, punch, sculpt, reassemble, or otherwise manipulate

**C257018 Accessory – Original made from Ceramic or Tile: (SF200)** Treatment to exhibit must go through process that permanently alters the medium. Painting alone is not sufficient.

**C257019 Accessory – Recycled/Upcycled Item for the home: (SF207)** Reusing a common object or material in a creative way. Include description of what was done to recycle or reuse items in your attached information.

**C257020 Furniture - Recycled/Remade: (SF207)** Made or finished by using a common object or material in a creative way. Include description of what was done to recycle or reuse items in your attached information.

**C257021 Furniture – Wood Opaque finish: (SF203)** such as Paint or Enamel

**C257022 Furniture – Wood Clear finish: (SF203)** showing Wood Grain

**C257023 Furniture – Fabric Covered: (SF200)** May include stool, chair seat, slipcovers, headboard, etc.

**C257024 Furniture – Outdoor Living: (SF200)** Furniture made/refurbished suitable for outdoor use. (NOTE: May be displayed outside). Include description of what was done to recycle or reuse items in your attached information.

**C257025 Accessory – Outdoor Living: (SF200)** Accessory made/refurbished by 4-H member suitable for outdoor use. (NOTE: May be displayed outside.) Include description of what was done to recycle or reuse items in your attached information.

**C257926 Miscellaneous Exhibit (Not Eligible for State Fair) –** Anything created by you that doesn't fit one of the above classes – must include documentation.

**C257930 Home Garden Decoration – Stepping Stone (Not Eligible for State Fair): (CFxxx) –** consider weight and size of item

**C257931 Home Garden Decoration – Gazing Ball (Not Eligible for State Fair): (CFxxx) –** consider weight and size of item as well as how to be displayed

**C257932 Home Garden Decoration – Other Garden Decoration (Not Eligible for State Fair): (CFxxx) –** consider weight and size of item as well as how to be displayed

**\*\*Check out Visual Arts and Expressive Arts for more classes.**

## DEPT C / DIV 256

### HEIRLOOM TREASURES & FAMILY KEEPSAKES

**Rules:**

1. This project area is for items with historic, sentimental, or antique value that are restored, repurposed or refinished to keep their original look and value. It is not for “recycled” items. For example, a bench would be considered an heirloom if the original finish is restored, but if decorated by painting it would be considered recycled. Entering highly valuable items (especially small ones) is discouraged, as exhibits are not displayed in closed cases.

**NOTE:** Resources to support this project area are available on the 4-H website. Attach information including:

- List of steps taken to complete your project. Before and after pictures are encouraged.
- Keepsakes documentation: how you acquired the item, and the history of the item may be written, pictures, audio or video tape of interview with family member, etc.

**C256001 Trunks: (SF206)** including doll-sized trunks or wardrobes.

**C256002 An Article (SF205) either a repurposed “treasure” (accessory) from an old item or an old “treasure” (accessory) refinished or renovated.** May include a display of a collection or collectibles, being careful not to destroy the value of the collection.

**C256003 Furniture: (SF205)** either a repurposed “treasure” from an old item or an old “treasure” refinished or renovated. May include doll-sized furniture.

**C256004 Cleaned and Restored Heirloom Accessory or Furniture:**

**(SF205)** A reconditioned and cleaned old piece of furniture or accessory that is functional for use or display. Item may be cleaned and waxed, and simple repairs made. Item would not be refinished or repainted but reconditioned to restore it to its original look or to prevent it from further damage as a valuable heirloom. Consult extension publication Care and Conservation of Heirloom Textiles, G1682 for information on textiles. (Refinished items go in classes 2-3). This class is for situations where it may be best to do very little to the item to maintain its antique value. Item or article should be of complexity suited to an advanced project. Item or article should be of complexity suited to an advanced project.

**C256905 Cleaned &/or Restored Heirloom Home Furnishings Textile: (Not eligible for State Fair) (SF205)** Consult extension publication, Care and Conservation of Heirloom Textiles, G1682 for information.

**C256906 Portfolio (SF201): (Not eligible for State Fair)** Collection of pictures, drawings, samples, worksheets and ideas for a room or home, an exploration of career possibilities (ex. a preservationist), or another application of your project learning put to use.

**C256907 Family Keepsakes Documentation (SF201): (Not eligible for State Fair)** Exhibit should show how 4-H'er has documented family keepsakes. May include notebook with photo, description and history of items, video tape, photo album, CD of family relative discussing the item, written interview with family member, keepsake inventory, etc.

**C256908 Miscellaneous Exhibit(SF205): (Not eligible for State Fair) –** Items that are Heirloom related that do not fit an above class.



# VISUAL ARTS

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## VISUAL ARTS

With an emphasis on originality, the purpose of the 4-H Visual Arts projects is to practice using design elements and principles while exploring and experimenting with various mediums and techniques. In addition, youth should practice self-expression and work to communicate their personal voice through their work.

### Rules:

- 1. Original Work** - Items must be the original work of the 4-H member and should show creativity and originality. No copyrighted images or master studies.
- 2. Ready for Professional Display** - All exhibits must be presented appropriately for the medium(s) used and ready to be professionally displayed. 2-dimensional pieces on paper should be framed behind glass/plexiglass. Canvas boards should be framed but glass/plexiglass is not necessary. Stretched canvases do not need frames as long as staples are not visible on the edges. All 2-dimensional pieces should be ready to hang using a sawtooth or wire hanger.
- 3. Entries per Exhibitor:** 4-H members may enter one exhibit per class (see general rules). \*\*There are some classes that have multiple of the same class, please note that only 1 exhibit from the youth may go to state fair regardless of number entered (See Original Fiber Art)
- 4. Entry Descriptions:** Entry tags should include a visual description of the exhibit, including size, dominant color, and subject to aid in identification.
- 5. Supporting Information:** Supporting information is required for all Visual Arts exhibits. Information must include responses to all questions and steps taken to complete the project. **Supporting information must be securely attached to the back of the piece.** Supporting Information tag templates can be found at <https://go.unl.edu/ne4hvisualarts>. Exhibits without supporting information will be dropped a ribbon placing.
- 6. Class Changes:** Exhibits must be entered in the appropriate class based on the medium(s) used or theme. Attempts will be made after check-in. Exhibits in inappropriate classes, but the exhibit may be dropped a ribbon placing. Supporting information may provide evidence or justification for the piece being entered in a specific class.

**Special State Fair Awards:** On-Campus Exhibition: State Fair visual arts exhibits may be selected for special on-campus exhibitions. Selected pieces will be collected at the end of State Fair and will be returned to county Extension offices following the on-campus exhibition. Youth whose pieces are selected will be contacted directly with additional information including the exhibition and reception dates.

### Resources:

Practice drawing, fiber arts, and sculpting; Develop artistic talents and skills; Understand the visual arts in relation to history and culture; Learn painting, printing, and graphic design techniques; Make connections between visual arts and other disciplines; create original artwork; practice using design elements and principles; explore and experiment with various mediums and techniques; practice self-expression; learn to communicate a personal voice through artwork.  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/51](https://4hcurriculum.unl.edu/index.php/main/program_project/51)

## DEPT C / DIV 260 VISUAL ART MEDIUMS

- C260001a Original Acrylic Painting (SF200)
- C260001b Original Acrylic Painting #2 (SF200)
- C260002a Original Oil Painting (SF200)
- C260002b Original Oil Painting #2 (SF200)
- C260003a Original Watercolor Painting (SF200)
- C260003b Original Watercolor Painting #2 (SF200)
- C260004a Original Pencil Drawing (SF200)
- C260004b Original Pencil Drawing #2 (SF200)
- C260005a Original Charcoal Drawing (SF200)
- C260005b Original Charcoal Drawing #2 (SF200)
- C260006a Original Ink Drawing (SF200)
- C260006b Original Ink Drawing #2 (SF200)
- C260007a Original Fiber Art (SF200) Could include weaved art, dyed fabric, felted wool, cotton linter, batik, etc.
- C260007b Original Fiber Art #2 - (SF200) same as class C260007
- C260007c Original Fiber Art #3 - (SF200) same as class C260007
- C260008 Original Sculpture (SF200) Could include Styrofoam, wood, cardboard, paper, metal, wire, etc.
- C260009 Original Ceramic Pottery (SF200) No purchased ceramic pottery. Must be glazed and fired. May be any hand-built technique or wheel thrown. May be functional or non-functional. Could include slab built, pinch pots, coil built, wheel thrown, etc.
- C260010 Original Painting on Purchased Ceramic Surface (SF200) No hand-built or wheel thrown pottery. May be functional or non-functional. Could include figurines, cups, bowls, etc.
- C260011a Original Single Media Not Listed (SF200) Could include digital art, leathercrafting, printmaking, stained glass, pastels, scratchboard, sand painting, encaustic painting, chalk, etc.
- C260011b Original Single Media Not Listed #2 (SF200) Same as class C260011.
- C260012a Original Mixed Media (SF200) Could include any combination of two or more other mediums or materials.
- C260012b Original Mixed Media #2 (SF200) same as class C260012

## DEPT C / DIV 261 VISUAL ART THEMES

Rules: Exhibits may utilize any medium or combination of mediums on any surface. All exhibits must be appropriately presented and ready to be professionally displayed. Artwork should depict the artist's own interpretation of the theme. All exhibits should include an explanation of how the piece reflects the theme and what ideas or thoughts the artist was attempting to express or communicate.

- C261001 Original Art Inspired by Plants or Animals (SF200) - could involve but is not limited to domestic animals, pets, agriculture, wild animals, wildlife conservation, house plants, fruit, vegetables, flowers, native plants, trees, etc.
- C261002 Original Art Inspired by Landscapes (SF200) - could involve but is not limited to rural landscapes, natural environments, man-made environments, urban landscapes, extraterrestrial landscapes, oceanic scenes, buildings, fantasy landscapes, agricultural landscapes, etc.
- C261003 Original Art Inspired by People (SF200) - could involve but is not limited to cultural art, modern society, portraits, daily life, careers, families, emotions, etc.
- C261004 Original Art Inspired by Artist's Choice (SF200) - could involve but is not limited to food, cars, fantasy worlds, imaginary characters, science-fiction, history, etc.

**\*\*Check out Expressive Arts for more classes.**

# FOOD & NUTRITION

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section

## FOOD & NUTRITION

The purpose of Food & Nutrition exhibits is to encourage knowledge about healthy eating and safe cooking practices. This category has multiple projects that allow 4-H'ers to progress over numerous years. In addition, 4-H'ers will learn different types of cooking methods to improve their knowledge of cuisine.

### Food & Nutrition Rules:

#### 1. Supporting Information:

Each exhibit must include the recipe. Recipe may be handwritten, photocopied, or typed. Place food on the appropriately sized plate or container and put in self-sealing bag. Attach entry tag and recipe at the corner of the bag. For non-food entries, please attach the entry tag to the upper right-hand corner of the entry. Additional information including recipes and supplemental information should be identified with 4-H'ers name and county.

#### 2. Criteria for Judging:

Exhibits will be judged according to score sheets available at <https://go.unl.edu/ne4hfood-nutrition>. Make sure to follow all entry instructions required for your exhibit. Incomplete exhibits will be lowered a ribbon placing. Commercially prepared mixes are ONLY allowed in Cooking 201 Creative Mix Class. Prepared baking mixes, biscuit mixes, commercially prepared seasoning mixes for food preservation and other pre-made mixes entered in other will be lowered a ribbon placing.

#### 3. Food Projects:

Exhibits should be entered using a disposable pan or plate and covered by a plastic, self-sealing bag. Saunders County is not responsible for non-disposable containers, lost bread boards, China, or glassware.

#### 4. Ingredients:

Any ingredient the 4-H'er uses must be able to be purchased by the 4-H'er. Ingredients such as beer, whiskey, rum, etc. may NOT be used in any recipe file or food exhibit. Exhibits that include alcohol will be disqualified.

#### 5. Food Safety:

Exhibits are on display for several days. Please think FOOD SAFETY! Items that require refrigeration will not be accepted, judged, or displayed as exhibits must be safe to eat when entered, whether they are tasted or not. Glazes, frostings, and other sugar-based toppings are considered safe due to their high sugar content. Egg glazes on yeast breads and pie crusts BEFORE baking are acceptable. Eggs incorporated into baked goods and crusts are considered safe. The following food ingredients are considered unsafe for fair exhibits and will be disqualified:

- Egg or cream fillings and cream cheese frostings
- Any meat item including meat jerky, imitation meat bits (bacon bits, pepperoni, etc.)
- Melted cheese on top of food exhibit (cheese mixed into baked goods is considered safe and will be accepted)
- Uncooked fruit toppings (i.e., fresh fruit tart).

**Scoresheets**, forms, contest study materials and additional resources can be found at <https://go.unl.edu/ne4hfood-nutrition>.

**Resources:** Learn how to use MyPlate; Learn how to avoid spreading germs while cooking; Learn how to measure and mix ingredients; Learn how to test baked goods for doneness; Learn how to brown meat; Learn how to set the table for a family meal; Understand and prevent foodborne illnesses Learn how to thaw foods Learn proper knife techniques Learn how to read Nutrition Fact labels Learn how to make soups, rice, pasta, and other foods; Practice making bread, grilling meats, vegetables, and fruit Learn how to and practice making butter Learn about yeast, gluten, and different types of fats; Learn about herbs and spices Learn how to make ethnic foods Practice making cakes, candy, pastries, and pies; Learn how to safely freeze foods and maintain quality Learn how to use frozen foods in healthy recipes; Learn how to safely dry foods and maintain quality Learn how to use dried foods in healthy recipes; Learn how to safely preserve fruits, tomatoes, fruit spreads, and pickles Learn how to use home-canned foods in healthy recipes; Learn how to safely preserve tomatoes, vegetables, and meats Learn how to use home-canned foods in healthy recipes.

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/194](https://4hcurriculum.unl.edu/index.php/main/program_project/194)

## DEPT E / DIV 300 YOUTH IN MOTION

### (Not Eligible for State Fair)

#### E300901 YOUTH in Motion Poster, Scrapbook, or

**Photo Display: (SF122)** Exhibit about the 4-H'er or the 4-H'ers family involved in a physical activity or concept/lesson involving this project. This might contain pictures, captions, and/or reports about the physical activity the individual or family did as a result of taking this project.

#### E300902 Activity Bag: (SF258)

A duffel bag or backpack the 4-H'er packs so that they are always prepared to be active and make healthy food choices. May include proper workout attire, a healthy beverage or snack, a notebook or goal sheet, etc. Make sure all items are clean, clearly labeled and an explanation of why it is included in the Activity Bag. DO NOT put valuable items (i.e., electronics) in Activity Bag, instead use a picture of the item or include in the listing of items.

#### E300903 YOUTH in Motion Healthy Snack Recipe File: (SF251)

Collection of 10 recipes from any source. Each recipe must accompany a complete snack menu in which the recipe is used, following the idea that a healthy snack includes foods from at least two different food groups. An additional 10 recipes may be added each year 4-H'er is in project, with year clearly marked on recipes. Consider creativity and neatness. Display in recipe file or box, or in a binder. Be sure to include the number of servings or yield of each recipe.

**E300904 Healthy Lifestyle Interview: (SF130)** Interview someone in your life that you admire that is physically active or has a healthy lifestyle. Why do they enjoy their exercise program or lifestyle choices? What are their goals? Why do you admire them? Maximum of two pages, one-sided write up of an interview with someone who has an active exercise program or has a healthy lifestyle. Consider creativity and neatness. Mount on colored paper or poster board or display in a binder. Include a picture of the person interviewed. (May be laminated to preserve exhibits). The overall size of mounted exhibit should be no larger than 9 inches x 12 inches.

**E300905 Healthy Snack: (SF125)** See ideas for non-perishable snacks in manual. Four cookies, bars, muffins, etc., on a paper plate or at least 1 cup of mix. Examples might include granola bars, homemade crackers, or chips. Supporting information to include recipe and why this snack might be considered a healthy snack.

## **DEPT E / DIV 400**

### **SIX EASY BITES/COOKING 101**

**(Not Eligible for State Fair)**

**E400901 Cookies (any recipe) (CF18)** - Four on a paper plate.

**E400902 Muffins (any recipe) (CF19)** - Four on a paper plate.

**E400903 Bars (any recipe) (CF20)** - Four on a paper plate.

**E400904 Brownies (any recipe) (CF21)** - Four on a paper plate.

**E400905 Snack or snack mix (any recipe) (CF22)** - Any recipe, two cookies, bars, muffins, etc., on a small paper plate or at least 1/2 cup of mix in a self-sealing bag. Supporting information to include recipe.

**E400906 Brownie Cents (CF23)** - Four unfrosted brownies (2 made from scratch and 2 made from a mix). Label each set of brownies and answer the following questions for each set:

1. How much time did it take to make?
2. Which cost the most, why?
3. Which is more important for your family – saving time or saving money? Why?
4. How can you apply what you learned the next time you make brownies?

**E400907 Decorated Cookie (CF24)** - 4 decorated items – appropriate container to display required.

**E400908 Decorated Cupcake (CF24)** – 2 to 4 decorated items – appropriate container to display required.

**E400909 Decorated Cake (CF24)** - 1 decorated item (does not need to be edible) - appropriate container to display required.

**E400910 Decorated Cake Pops (CF24)** – 2 to 4 decorated items – appropriate container to display required.

## **DEPT E / DIV 402 FAST FOODS**

**(Not Eligible for State Fair)**

**E402905 Fast Foods Menu Planning: (SF250)** 4-H'er develops exhibits that aid in menu planning. May be a menu plan that is developed for at least five meals, a recipe file, or a poster that is related to what is learned in the Fast Foods project. Consider creativity and neatness. Menu plan may be mounted on colored paper or poster board or displayed in a binder. Attach an evaluation found in the Fast Foods manual.

**E402906 Fast Foods Baked Product: (CF251A)** Use five to seven ingredients to make a "quick" baked product. May be any recipe. Prepackaged products may be used in recipe, ex. Refrigerated dinner roll, pre-made bread dough, etc. Include at least 3/4 of baked product or 4 muffins/cookies on a paper plate or in a disposable pan.

**E402907 Grocery Store Investigation: (CF251D) Poster or Notebook:** Select 10 products and compare the prices between national brand name and a store brand from two different stores. Include the unit price and cost per serving of each product. Indicate which product is the best choice for your family and why.

**E402908 Food Safety: (CF251C) Poster or Notebook:** Select one meal menu and give details on the steps you take from the start of preparation through cleanup of the meal. Include details of cleaning, separating, cooking, and chilling the food products during the timeline.

## **DEPT E / DIV 350**

### **GENERAL FOODS & NUTRITION**

**(Eligible for State Fair except 901 – 905)**

**E350001 Food Science Explorations: (SF152)** Show the connection between food and science as it relates to food preparation, food safety, food preservation, or food production. Exhibit may be a poster or foam core board (not to exceed 22 inches x 30 inches), computer-based presentation printed off with notes pages, if needed, and displayed in a binder, an exhibit display, a written report in a portfolio or notebook. Consider neatness and creativity.

**E350002 Foods and Nutrition Poster, Scrapbook or Photo Display: (SF122)** The project should involve a nutrition or food preparation technique or explore a career related to the food industry (caterer, restaurant owner, food scientist, registered dietitian, etc.). This might contain pictures, captions and/or a report to highlight the concept. Exhibit may be a poster or a foam core board (not to exceed 22 inches by 30 inches), a computer-based presentation printed off with notes pages (if needed) and displayed in a binder, an exhibit display, or a written report in a portfolio or notebook. Consider neatness and creativity.

**E350003 Physical Activity and Health Poster, Scrapbook or Photo Display: (SF122)** The project should involve a physical activity or explore a career-related to physical activity or health (personal trainer, sports coach, physical therapist, etc.). This might contain pictures, captions and/or a report to highlight the concept. Exhibit may be a poster or a foam core board (not to exceed 22 inches by 30 inches), a computer-based presentation printed off with notes pages, if needed, and displayed in a binder, an exhibit display, or a written report in a portfolio or notebook. Consider neatness and creativity.

**E350004 Cooking Basics Recipe File (SF251)** A collection of 10 recipes from any source. Each recipe must accompany a complete menu in which the recipe is used. An additional 10 recipes may be added each year the 4-H'er is in the project, with year clearly marked on recipes. Display in a recipe file or binder. Be sure to include the number of servings or yield of each recipe. This may be a continued recipe file project from the previously used 4-H curriculum before 2018. Exhibits that include recipes with alcohol (wine, beer, rum, etc.) will be disqualified.

**E350901 Food Gift – Non-Perishable (CFXX)** – Prepare and package a food gift creatively. Exhibit must include a prepared item (finished product) made by the 4-H member, suitable for human consumption. Ex: cookie mix in a jar must include a baked cookie. On the index card, indicate whom the gift is intended for and the occasions.

**E350902 Food Gift – Perishable (CFXX)** - Prepare and package a food gift creatively. Examples include soup or dip mix. On the index card, indicate whom the gift is intended for and the occasions.

**E350903 Candy Bar Bouquet (CFXX)** – prepare a candy bar bouquet creatively. On the index card, indicate whom the gift is intended for and the occasions.

#### **Decorated Cookie Jar Rules:**

##### **1. NOT ELIGIBLE FOR STATE FAIR**

2. Each exhibitor will start with a jar/ food grade container (ex: a pickle jar) of your choosing.
3. Decoration is up to the creativity of the exhibitor.
4. The container should be safe for food; paint and other decorations should not be applied to the inside of the jar.
5. The lid must be able to open to access cookies.
6. All 4-H projects must comply with copyright laws. You cannot reproduce a copyrighted figure. If you purchase a copyrighted item to use, such as stuffed Cookie Monster, Sponge Bob fabric, Disney decals, etc., that is okay. Royalties are paid on that item at the time you buy it. Hand drawn company logos or cartoon characters are not allowed. Any cookie jar or cake that violates the copyright law will be disqualified. If you have questions, contact the office.
7. Follow Food & Nutrition rules above.

**E350904 Senior Decorated Cookie Jar (CF17):** (age 12 and up)

**E350905 Junior Decorated Cookie Jar (CF17):** (8-11 years old)

## DEPT E / DIV 410 COOKING 201

### *(Eligible for State Fair)*

- E410001 Loaf Quick Bread: (SF123)** Any recipe, at least  $\frac{3}{4}$  of a standard loaf displayed on a paper plate. Quick bread is any bread that does not require kneading or rising time and does NOT include yeast. A standard quick bread loaf measures approximately 8  $\frac{1}{2}$  inches x 4  $\frac{1}{2}$  inches or 9 inches x 5 inches. If mini-loaf pans are used for exhibit, two loaves must be presented for judging.
- E410002 Creative Mixes: (SF142)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins or cookies on a paper plate or in a disposable pan. Baked item made from a mix (commercial or homemade mixes acceptable). Food product must have been modified to make a new or different baked item. Examples include poppy-seed quick bread from a cake mix, cake mix cookies, sweet rolls made from readymade bread dough, monkey bread from biscuit dough, streusel coffee cake from a cake mix, etc. Write what you learned about making this product using a mix instead of a homemade recipe or recipe "from scratch". Does it make it better or easier to use a convenience product or mix? Why or why not?
- E410003 Biscuits or Scones: (SF136)** Four biscuits or scones on a small paper plate. This may be any type of biscuit or scone: rolled or dropped. Any recipe may be used, but it must be a non-yeast product baked from scratch.
- E410004 Healthy Baked Product: (SF124)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins/cookies on a paper plate or in a disposable pan. Recipe must contain a fruit or vegetable as part of the ingredients (Ex. banana bars, cantaloupe quick bread, zucchini muffins, etc.).
- E410005 Coffee Cake: (SF129)** Any recipe or shape, non-yeast product, at least  $\frac{3}{4}$  of baked product on a paper plate or in a disposable pan. Include a menu for a complete meal where this recipe is served, following meal planning guidelines suggested in Cooking 201.
- E410006 Baking With Whole Grains: (SF134)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins/cookies on a paper plate or in a disposable pan. Recipe must contain whole grains as part of the ingredients. (Ex. whole wheat applesauce bread, peanut butter oatmeal cookies, etc.)
- E410007 Non-Traditional Baked Product: (SF133)** Exhibit must include a food product prepared using a non-traditional method (i.e., bread machine, cake baked in an air fryer, baked item made in microwave, etc.) Entry must be at least  $\frac{3}{4}$  baked product, or 4 muffins or cookies on a paper plate or in a disposable pan. Entry must include supporting information that discusses alternative preparation methods and how it compares with traditional methods.

## DEPT E / DIV 411 COOKING 301

### *(Eligible for State Fair)*

- Any bread item prepared or baked using a bread machine should be entered under the Cooking 201, Non-Traditional Baked Product. All exhibits made in the Cooking 301 or Cooking 401 projects must have been prepared without the assistance of a bread machine for mixing, raising, or baking of the food item.
- E411001 White Bread: (SF138)** Any yeast recipe, at least  $\frac{3}{4}$  of a standard loaf displayed on a paper plate.
- E411002 Whole Wheat or Mixed Grain Bread: (SF138)** Any yeast recipe, at least  $\frac{3}{4}$  of a standard loaf displayed on a paper plate.
- E411003 Specialty Rolls: (SF138)** Any yeast recipe, 4 rolls on a paper plate. May be sweet rolls, English muffins, kolaches, bagels, or any other similar recipe that makes individual portions.
- E411004 Dinner Rolls: (SF138)** Any yeast recipe, 4 rolls on a paper plate. May be cloverleaf, crescent, knot, bun, bread sticks, or any other type of dinner roll.
- E411005 Specialty Bread: (SF141)** Any yeast recipe, includes tea rings, braids, or any other full-sized specialty bread products. Must exhibit at least  $\frac{3}{4}$  of a full-sized baked product.
- E411006 Shortened Cake: (SF137)** At least  $\frac{3}{4}$  of the cake (not from a cake mix). Shortened cakes use fat for flavor and texture and recipes usually begin by beating fat with sugar by creaming and include leavening agents in the recipe. Cake may be frosted with a non-perishable frosting (no cream cheese or egg white based frostings allowed).

## DEPT E / DIV 412 COOKING 401

### *(Eligible for State Fair)*

- Any bread item prepared or baked using a bread machine should be entered under Cooking 201. All exhibits made in Cooking 301 or Cooking 401 projects must have been prepared without the assistance of a bread machine for mixing, raising, or baking of the food item.
- E412001 Double Crust Fruit Pie: (SF144)** Made with homemade fruit filling. No egg pastries or cream fillings. No canned fillings or premade pie crusts. May be a double crust, crumb, cut-out, or lattice topping. Using an 8 inch or 9 inch disposable pie pan is recommended.
- E412002 Family Food Traditions: (SF145)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins or cookies on a paper plate. May be baked in a disposable pan. Any baked item associated with family tradition and heritage. Entry must include (A) recipe, (B) tradition or heritage associated with preparing, serving the food, (C) where or who the traditional recipe came from.
- E412003 Ethnic Food Exhibit: (SF146)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins or cookies on a paper plate or in a disposable pan. The name of the country, culture or region should be included as part of the supporting information with the recipe, as well as background information about the country or culture the food item is representing.
- E412004 Candy: (SF147)** Any recipe, 4 pieces of candy on a paper plate or  $\frac{1}{2}$  cup. No items containing cream cheese will be accepted (Example: cream cheese mints). Candy may be cooked or no cook; dipped, molded, made in the microwave or other methods of candy preparation. Recipe must be included.
- E412005 Foam Cake: (SF148)** Original recipe (no mixes) of at least  $\frac{3}{4}$  of the cake. Foam cakes are cakes that have a high ratio of eggs to flour and fall into three categories: angel food cakes or meringues; sponge or jelly roll cakes; and chiffon cakes. Cake may be frosted with a non-perishable frosting (no cream cheese or egg white based frostings allowed).
- E412006 Specialty Pastry: (SF143)** Any recipe, at least  $\frac{3}{4}$  of baked product or 4 muffins or cookies on a paper plate or in a disposable pan. Baked items such as pie tarts, puff pastry, phyllo doughs, biscotti, choux, croissants, Danish, strudels. Phyllo dough may be pre-made or from scratch. Pastries made with cream or egg-based fillings will be disqualified.
- ## DEPT E / DIVISION 425 FOOD FLOP
- ### *(Not Eligible for State Fair)*
- E425901 Food Flop:** A flop from any class in Foods Department E. Tell why it flopped and what you learned from the failure. Include recipe and other learning experiences.



# FOOD PRESERVATION

## Rules:

- 1. Processing Methods:** Current USDA processing methods and altitude adjustments must be followed for all food preservation. Jam preserves and marmalades, fruit, tomatoes, and pickled products must be processed in a boiling water bath. Tomatoes may be processed in a pressure canner. All non-acid vegetables and meats must be processed in a pressure canner. Improperly canned or potentially hazardous food items will be disqualified. Spoiled or unsealed containers disqualifies entry.
- 2. Jars and lids:** Do not need to be the same brand. Half pint jars may be used for jellies and preserves. The jars are not to be decorated by the exhibitor in any way. Canning jars must be used - others will be disqualified. No one-fourth pint jars allowed. Leave jar rings on for fair display, it helps protect the seal. Two-piece lids consisting of a flat metal disk and a ring should be used. No zinc lids or one-piece lids.
- 3. Current Project: Exhibits must have been preserved since the member's previous year's county fair, and not been exhibited at the previous State Fair.**
- 4. Criteria for Judging:** Exhibits will be judged according to score sheets available at <https://4hfairbook.unl.edu/fairbookview.php/rules>. Incomplete exhibits will be lowered a ribbon class. Canned food items not processed according to altitude in the county will be lowered one class ribbon. Check this site <https://food.unl.edu/canning#elevation> for your county's altitude and how that affects food processing times and pounds of pressure.
- 5. Labeling:** Jars should be labeled with the name of the food item, name of the 4-H'er, county, and date of processing on the bottom of each jar. Exhibits containing multiple jars such as a "3 jar exhibit" should be placed in a container to keep jars together. Each bag containing dried foods should also be labeled with the name of the food item, the name of the 4-H'er, county and drying date.
- 6. Recipe/Supporting Information:** Recipe must be included, and may be handwritten, photocopied, or typed. Commercially prepared seasoning mixes are not allowed. Current USDA guidelines for food preservation methods MUST be followed. Suggested sources of recipes include:
  - 4-H Food Preservation Manuals (Freezing, Drying, Boiling Water Bath Canning, Pressure Canning)
  - USDA Guide to Home Canning [https://nchfp.uga.edu/publications/publications\\_usda.html](https://nchfp.uga.edu/publications/publications_usda.html)
  - Nebraska Extension's Food Website <https://food.unl.edu/food-preservation> or Extension publications from other states
  - Ball Blue Book (published after 2009)
- 7. All exhibits must include the 4-H Food Preservation Card attached to the project as the required supporting information or include following information with exhibit:**
  - Name of product
  - Date preserved
  - Method of preservation (pressure canner, water bath canner or dried)
  - Type of pack (raw pack or hot pack)
  - Altitude (and altitude adjustment, if needed)
  - Processing time
  - Number of pounds of pressure (if pressure canner used)
  - Drying method and drying time (for dried food exhibits)
  - Recipe and source of recipe (if a publication, include name and date)

Food Preservation card can be found at <https://bit.ly/2uvarEs>

## DEPT E / DIV 406 UNIT 1 FREEZING

- E406001 Baked Item Made with Frozen Produce: (SF155)** Any recipe, at least 3/4 of baked product or 4 muffins or cookies on a paper plate or in a disposable pan. Recipe MUST include a food item preserved by the freezing method done by the 4-H'er. Ex. Peach pie, blueberry muffins, zucchini bread, etc. Supporting information must include both the recipe for the produce that was frozen as part of this project AND the baked food item.

## DEPT E / DIV 407 UNIT 2 DRYING

- E407001 Dried Fruits: (SF154)** Exhibit 3 different examples of 3 different dried fruits. Place each dried fruit food (6-10 pieces of fruit, minimum 1/4 cup) in separate self-sealing bags. Use a rubber band or "twisty" to keep the exhibit together.
- E407002 Fruit Leather: (SF154)** Exhibit 3 different examples of 3 different fruit leathers. Place a 3-4 inch sample of each fruit together in separate self-sealing bags. Use a rubber band or "twisty" to keep exhibit together.

- E407003 Vegetable Leather: (SF154)** Exhibit 3 different examples of 3 different vegetable or vegetable/fruit leather combo. Place a 3-4 inch sample of each leather together in separate self-sealing bags. Use a rubber band or "twisty" to keep exhibit together.
- E407004 Dried Vegetables: (SF149)** Exhibit 3 different samples of 3 different dried vegetables. Place each food (1/4 cup of each vegetable) in a separate self-sealing bag. Use a rubber band or "twisty" to keep the exhibit together.
- E407005 Dried Herbs: (SF149)** Exhibit 3 different samples of 3 different dried herbs. Place each food (1/4 cup of each herb) in a separate self-sealing bag. Use a rubber band or "twisty" to keep the exhibit together.
- E407006 Baked Item Made with Dried Produce/Herbs: (SF156)** Any recipe, at least 3/4 of baked product or 4 muffins or cookies on a paper plate or in a disposable pan. Recipe MUST include a dried produce/herb item made by the 4-H'er. Ex. Granola bar made with dried fruits, dried cranberry cookies, Italian herb bread, lemon thyme cookies. Supporting information must include both the recipe for the dried produce/herb AND the baked food item.

## DEPT E / DIV 408 UNIT 3

### BOILING WATER CANNING

- E408001 1 Jar Fruit Exhibit: (SF150)** Exhibit one jar of a canned fruit. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408002 3 Jar Fruit Exhibit: (SF150)** Exhibit 3 jars of different canned fruits. May be three different techniques for same type of product, ex. Applesauce, canned apples, apple pie filling, etc. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408003 1 Jar Tomato Exhibit: (SF150)** Exhibit one jar of a canned tomato product. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408004 3 Jar Tomato Exhibit: (SF150)** Exhibit 3 jars of different canned tomato products (salsa, sauces without meats, juice, stewed, etc.). Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408005 1 Jar Pickled Exhibit: (SF150)** One jar of a pickled and/or fermented product. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408006 3 Jar Pickled Exhibit: (SF150)** Exhibit 3 jars of different kinds of canned pickled and/or fermented products. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408007 1 Jar Jelled Exhibit: (SF153)** Exhibit one jar of jam, jelly, fruit butter or marmalade. Entry must be processed in a boiling water bath according to current USDA recommendations.
- E408008 3 Jar Jelled Exhibit: (SF153)** Exhibit 3 different kinds of jelled products. Entry may be made up of either pints or half pints. Entry must be processed in a boiling water bath according to current USDA recommendations.

## DEPT E / DIV 414 UNIT 4

### PRESSURE CANNING

- E414001 1 Jar Vegetable or Meat Exhibit: (SF150)** Exhibit one jar of a canned vegetable or meat. Include only vegetables or meats canned in a pressure canner according to current USDA recommendations.
- E414002 3 Jar Vegetable Exhibit: (SF150)** Exhibit 3 jars of different kinds of canned vegetables. Include only vegetables canned in a pressure canner according to current USDA recommendations.
- E414003 3 Jar Meat Exhibit: (SF150)** Exhibit 3 jars of different kinds of canned meats. Include only meats canned in a pressure canner according to current USDA recommendations.
- E414004 Quick Dinner: (SF151)** Exhibit a minimum of 3 jars to a maximum of 5 jars plus menu. The meal should include 3 canned foods that can be prepared within an hour. List complete menu on a 3 X 5 inch file card and attach to one of the jars. Entry must be processed according to current USDA recommendations.
- E414005 1 Jar Tomato Exhibit: (SF150)** Exhibit one jar of a canned tomato product. Entry must be processed in a pressure canner according to current USDA recommendations.
- E414006 3 Jar Tomato Exhibit: (SF150)** Exhibit 3 jars of different canned tomato products (salsa, sauces without meats, juice, stewed, etc.). Entry must be processed in a pressure canner according to current USDA recommendations.

# HORTICULTURE & FLORICULTURE

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30-8:00 p.m.

*No exhibits will be accepted after 8:00 p.m. on Monday, July 29*

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

Must enroll in appropriate project in 4-H Online due to State Fair Rules

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## FLORICULTURE

The purpose is to encourage participants in planting, growing, and caring for flowers and houseplants. There is also a special gardening project in this category that 4-H'ers can participate in.

### Rules:

1. Classes 1-23: Cut Flower Annuals and Biennials - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.
2. Classes 30-46: Cut Flower Perennials - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.
3. The cultivar or variety name must be included on all entry cards. If potted container with several cultivar or varieties identifies each individually within the pot. Failure to identify the cultivar or variety will drop the entry one ribbon placing. Proper identification is the responsibility of the exhibitor, not the Extension staff or office personnel.
4. Punch hole in the top center of entry tag, use a rubber band to securely attach entry tag to containers.
5. Exhibits entered under an incorrect class number or containing an incorrect number of stems will be dropped one ribbon placing. In classes 23, 45 & 46, do not duplicate entries from the already listed classes or entry will be dropped one ribbon placing. For example, 4-H'ers with two cultivars or varieties of marigolds can only enter the marigold class and cannot enter the other cultivar or variety in any other class. A perennial is defined as a plant of which the crown overwinters. An annual is a plant that grows from seed each season, whether self-seeded or planted by the gardener. A biennial is a plant that germinates, grows, and overwinters as a crown, blooms the following year, and dies. Foliage will be considered when exhibit is judged.
6. All 3 or 5 stems of cut flowers should be the same cultivar and color, do not mix cultivars and colors. Containers will not be judged; however, they should be CLEAR GLASS CONTAINERS that won't tip over (No plastic containers at State Fair) and of adequate size to display blooms. Any exhibit not in a clear glass container will be dropped one ribbon placing. NO SCREW ON LIDS OR SCREW ON RINGS AND FLATS MAY BE USED. To hold flowers in place it is suggested to use tin foil or a type of plastic wrap with holes poked into it or frog lids. Containers may not be returned from State Fair.

**SCORESHEETS**, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hhorticulture>

**Resources:** Grow foliage and bulb plants indoors; Learn what houseplants need to stay healthy; Learn about growing healthy plants; Grow flowers from seeds; Learn about caring for flowers; Plant, grow, and care for annual flowers; Grow foliage and bulb plants indoors; Learn what houseplants need to stay healthy; [https://4hcurriculum.unl.edu/index.php/main/program\\_project/106](https://4hcurriculum.unl.edu/index.php/main/program_project/106)

Preparing Cut Flowers - <https://go.unl.edu/SaundersStatic>

## DEPT G / DIV 770

### FLORICULTURE

**Cut Flower Annuals and Biennials (SF106)** 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.

- G770001 Aster
- G770002 Bachelor Buttons
- G770003 Bells of Ireland
- G770004 Browallia
- G770005 Calendula
- G770006 Celosia – crested or plume (3 stems)
- G770007 Cosmos
- G770008 Dahlia
- G770009 Dianthus
- G770010 Foxglove
- G770011 Gladiolus (3 stems)
- G770012 Gomphrena
- G770013 Hollyhock (3 stems)
- G770014 Marigold
- G770015 Pansy
- G770016 Petunia
- G770017 Salvia
- G770018 Snapdragon
- G770019 Statice
- G770020 Sunflower (under 3 inches diameter - 5 stems, 3 inches or more in Diameter - 3 stems)
- G770021 Vinca
- G770022 Zinnia
- G770023 Any Other Annual or Biennial (under 3 inches diameter - 5 stems, 3 inches or more in diameter - 3 stems) do not duplicate entries in classes 1-22

**Cut Flower Perennials (SF106)** - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.

- G770030 Achillea/Yarrow
- G770031 Chrysanthemum
- G770032 Coneflower
- G770033 Coreopsis
- G770034 Daisy
- G770035 Gaillardia
- G770036 Helianthus
- G770037 Hydrangea
- G770038 Liatris (3 stems)
- G770039 Lilies (3 stems) (Not Daylilies)
- G770040 Platycodon
- G770041 Rose (3 stems)
- G770042 Rudbeckia/ Black-eyed Susan
- G770043 Sedum
- G770044 Statice
- G770045 Any Other Perennial (under 3 inches diameter – 5 stems, 3 inches or more in diameter – 3 stems) (do not duplicate entries in classes 30-44)

**G770046 4-H Flower Garden Collection of 5 different cut flowers.**

Flowers are to be cut not potted. Each flower in the collection should be exhibited with the number specified for classes 1-45. Display in a box or other holder not more than 18 inches in any dimension. Boxes may not be returned at State Fair. Do not duplicate entries in classes 1-45 with any in the group collection.

**G770970 Ornamental Grass (Not Eligible for State Fair)** Foliage and fully developed seed head. Label variety or cultivar.

**Flower Arrangements (CF770) – Do not need to be grown by 4H member but indicate your source on your tag.**

**G770971 Cut Flower Theme Arrangement: (Not Eligible for State Fair)** – Theme exhibit – arrangement of fresh flowers pertaining to any type of theme. Container is judged.

**G770972 Real Cut Flower Small Arrangement: (Not Eligible for State Fair)** – cut flowers displayed in a container with a 6 inch or less diameter. Container is judged.

**G770973 Real Cut Flower Large Arrangement: (Not Eligible for State Fair)** – cut flowers displayed in a container larger than 6 inches. Container is judged.

**G770974 Artificial Floral Arrangement (Small): (Not Eligible for State Fair)** Diameter of overall exhibits must be less than 6 inches. 4Hers does not have to grow plants used. Container is judged.

**G770975 Artificial Floral Arrangement (Large): (Not Eligible for State Fair)** Diameter of overall exhibit must be greater than 6 inches. Container is judged.

**G770976 Corsages & Boutonniere: (Not Eligible for State Fair)** Artificial or Real flowers in a see-through container.

**Educational Exhibits**

**G770050 Flower Notebook: (SF100)** Exhibit a notebook containing pictures of flowers grown in Nebraska. There must be at least 10 different species of annuals and/or biennials and 10 different species of perennials hardy to Nebraska. Bulbs may be included in a separate section. 4-H'ers may show more than one cultivar of the same species, but they will only count as one species. The notebook must be the result of the current year's work. Pictures from garden catalogs, hand drawn pictures, or photographs may be used. Each species/cultivar must be labeled with the correct common name and scientific name; the height and spread of the plant and the growing conditions (for example needs full sun and dry sandy soil) the species prefers. In addition to this information, bulbs should also be labeled as spring or summer flowering. Give proper credit by listing the sources of pictures and information used.

**G770051 Flower Garden Promotion Poster: (SF103)** Individual poster promoting flower gardening, size 14 inches x 22 inches either vertical or horizontal arrangement. Poster may be in any medium: watercolor, ink, crayon, etc. as long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be stapled to the upper right-hand corner.

**G770052 Educational Flower Garden Poster: (SF104)** Prepare a poster 14 inches x 22 inches x 2 inches (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project you have done or learned about in a 4-H flower or houseplant project. One might show a special technique used or equipment incorporated in the garden. Refer to 4-H horticulture project manuals but use your own creativity. Entry card must be stapled to the upper right-hand corner.

**G770053 Flower Gardening History Interview: (SF105)** Neatly handwritten or typed account of a gardening history interview whose flower garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include 1 picture of the person you interviewed) of their flower garden if the individual is still gardening. Protect with a clear report cover.

**HOUSEPLANTS:**

**Rules:**

1. **Container Grown Houseplants:** The choice of container and soil quality will be considered in judging. Each houseplant must be identified by listing the names on the entry tag or on a card attached to the container. Identify each plant individually if there is more than one cultivar or variety.

Houseplants should be grown in the display container for a minimum of six weeks. Plants grown as houseplants must be used. [NebGuide G2205 "Guide to Growing Houseplants"](#) and [NebGuide G837 "Guide to Selecting Houseplants"](#) includes a listing of common houseplants. **Containers of annual flowers or annual plants (i.e., petunias, geraniums, impatiens) will be disqualified and will not be judged.**

2. Entries in Classes 60-66 must have been designed and planted by the 4-H member.

3. Any container plant, (flowering or foliage potted houseplants, dish gardens, fairy or miniature gardens, desert gardens, or terrariums) shall be in containers no larger than 12 inches (use inside opening measurement) in any dimension of length or width. No combination of pots may be used. All potted plants are to be in a one pot container. Any container grown plant in Classes 60-66 that does not follow these guidelines will be dropped one ribbon placing.

4. Classes 60-65 exhibitors must have and provide a saucer to catch drainage water. The 4-H members name, age, county, and years in the project(s) must be on the bottom or back of the container and saucer.

**G770060 Flowering Potted Houseplant(s): (SF107)** That are blooming for exhibition. Container may have one or more houseplants in container. Label with the name for each plant. Non-blooming plants will be disqualified.

**G770061 Foliage Potted Houseplant: (SF107)** One variety of tropical or cacti or succulent plant. Label with name of plant.

**G770062 Hanging Basket: (SF107)** Of flowering and/or foliage houseplants. Container may have one or more houseplants in container. Label with the name for each plant.

**G770063 Dish Garden: (SF107)** An open/shallow container featuring a variety of houseplants excluding cacti and succulents. Label with the name for each plant.

**G770064 Fairy or Miniature Garden: (SF107)** A miniature "scene" contained in an open container and featuring miniature or small, slow growing houseplants. The garden needs to have an imaginative theme and miniature accessories, i.e., bench, fence made from tiny twigs, small shell for a bathtub, etc. Label with the name for each plant.

**G770065 Desert Garden: (SF107)** An open/shallow container featuring a variety of cacti and/or succulents grown as houseplants. Label with the name for each plant.

**G770066 Terrarium: (SF107)** A transparent container, partially or completely enclosed; sealed or unsealed. Label with the name for each plant.

**G770967 Container Garden(SF107): (Not Eligible for State Fair)** Plants used are at the 4Hers discretion (annual, perennials, succulents, etc. – may also be a mix). Entry must weigh less than 50 pounds. Label with the name for each plant.

**G770968 Hanging Basket(SF107): (Not Eligible for State Fair)** Plants used may be flowering or foliage plants. (Outdoor) Label with the name for each plant.

**G770969 Unique Container(SF107): (Not Eligible for State Fair)** Container must be unusual, or not generally used for holding plants. Container uniqueness, as well as plant appearance and design will be judged. Label with the name for each plant.



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# HORTICULTURE

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The purpose of Horticulture is to encourage participants to start and maintain vegetable and herb gardens.

## Rules:

1. The cultivar or variety name must be included on all entry cards.  
Failure to identify the cultivar or variety will drop the entry one ribbon placing. Proper identification is the responsibility of the exhibitor, not the Extension staff or office personnel. Exhibits entered under an incorrect class number or containing an incorrect number of vegetables will be dropped one ribbon placing. In classes 252, 255, 268, 269, 285 and 286 do not duplicate entries from any of the other classes or entry will be dropped one ribbon placing. For example: 4-H's with two cultivars or varieties of red tomatoes can only enter the red tomatoes class and cannot enter the other cultivar or variety in any other vegetable class. Score Sheet SF108.
2. Vegetables (Classes 1-56) Class, Vegetable, Number's to Exhibit - Follow the guidelines in Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit 4H226 when preparing entries for the fair. Found at <https://go.unl.edu/SaundersStatic>
3. Herbs (Classes 60-69) Herbs will be judged using the same general criteria used for vegetables. Those grown mainly for their seed, such as dill and caraway, should be exhibited on a plate. Those grown for their leaves such as basil, parsley, etc. should be exhibited in a CLEAR GLASS CONTAINER of water (no plastic containers at State Fair). Any exhibit not in a clear glass container will be dropped one ribbon placing. NO SCREW ON LIDS OR SCREW ON RINGS AND FLATS MAY BE USED. To hold herb leaves in place it is suggested to use tin foil or a type of plastic wrap with holes poked into it or frog lids. Containers may not be returned from State Fair. Potted herb plants will be disqualified and will not be judged. Score Sheet SF108.
4. Fruits (Classes 80-86) Fruits will be judged using the same general criteria used for vegetables. Fruit will be judged for the stage of maturity normal for that season and growing location. Emphasis will be placed on how well fruit approaches market quality. Score Sheet SF108.

**Resources:** Choose a garden site; Plan a garden; Grow vegetables; Select and purchase garden supplies; Grow transplants; Plan and plant a garden; Find out how seeds germinate; Learn what different plant parts do; Harvest and use your vegetables; Transplant plants into your garden; Grow plants from plant parts; Feed your garden; Earn money by growing vegetables; Learn about succession planting; Grow an herb garden; Find out about photosynthesis; Identify pest damage; Use intercrop and double crop planting methods; Plant a computer-planned garden; Identify plant diseases; Learn about plant scientists

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/106](https://4hcurriculum.unl.edu/index.php/main/program_project/106)

## DEPT G / DIV 773 VEGETABLES (SF108)

### See Horticulture Rules

- G773201 Lima Beans (12)
- G773202 Snap Beans (12)
- G773203 Wax Beans (12)
- G773204 Beets (5)
- G773205 Broccoli (2)
- G773206 Brussel Sprouts (12)
- G773207 Green Cabbage (2)
- G773208 Red Cabbage (2)
- G773209 Carrots (5)
- G773210 Cauliflower (2)
- G773211 Slicing Cucumbers (2)
- G773212 Pickling Cucumbers (5)
- G773213 Eggplant (2)
- G773214 Kohlrabi (5)
- G773215 Muskmelon/Cantaloupe (2)
- G773216 Okra (5)
- G773217 Yellow Onions (5)
- G773218 Red Onions (5)
- G773219 White Onions (5)
- G773220 Parsnips (5)
- G773221 Bell peppers (5)
- G773222 Sweet (Non-Bell) peppers (5)
- G773223 Jalapeno Peppers (5)
- G773224 Hot (Non-Jalapeno) Peppers (5)
- G773225 White Potatoes (5)
- G773226 Red Potatoes (5)
- G773227 Russet Potatoes (5)
- G773228 Other Potatoes (5)
- G773229 Pumpkin (2)
- G773230 Miniature Pumpkins (5) - (Jack Be Little Type)

- G773231 Radish (5)
- G773232 Rhubarb (5)
- G773233 Rutabaga (2)
- G773234 Green Summer Squash (2)
- G773235 Yellow Summer Squash (2)
- G773236 White Summer Squash (2)
- G773237 Acorn Squash (2)
- G773238 Butternut Squash (2)
- G773239 Buttercup Squash (2)
- G773240 Other Winter Squash (2)
- G773241 Sweet Corn (in husks) (5)
- G773242 Swiss Chard (5)
- G773243 Red Tomatoes - 2 inches or more in diameter (5)
- G773244 Roma or Sauce-type Tomatoes (5)
- G773245 Salad Tomatoes - under 2 inches diameter (12)
- G773246 Yellow Tomatoes (5)
- G773247 Turnips (5)
- G773248 Watermelon (2)
- G773249 Dry Edible Beans (1 pint)
- G773250 Gourds, mixed types (5)
- G773251 Gourds, single variety (5)

**G773252 Any other vegetable** - 2, 5, or 12 (do not duplicate entries in classes 201-251) that doesn't fit in any other class

**G773255 4-H Vegetable Garden Collection of Five Kinds of Vegetables:** Displayed in a box not more than 24 inches in any dimension. Boxes may not be returned from State Fair. Showmanship will be considered in judging, but plastic grass, cotton, figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252). Do not duplicate entries in classes 201-252 with any in the group collection.

**G773256 4-H Cultivar Vegetable Collection.** Vegetables entered in the collection are 5 cultivars from a single exhibit. For example, 5 cultivars of all types of peppers, squash, onions, tomatoes, etc. Display in a box not more than 24 inches in any dimension. Boxes may not be returned from State Fair. Showmanship will be considered in judging, but plastic grass, cotton, figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252).

## DEPT G / DIV 773 HERBS (SF108)

- G773260 Basil (5)
- G773261 Dill / dry (5)
- G773262 Garlic / bulbs (5)
- G773263 Mint (5)
- G773264 Oregano (5)
- G773265 Parsley (5)
- G773266 Sage (5)
- G773267 Thyme (5)
- G773268 Any other herb (5) (do not duplicate entries in classes 260- 267)
- G773269 4-H Herb Garden:** Display of 5 different herbs. Displayed in a box or other holder not more than 18 inches in any dimension. Box may not be returned from State Fair. Each herb in the collection should be exhibited with the number specified for Classes 260- 268. Do not duplicate entries in classes 260- 268 with any in the Herb Garden collection.

## DEPT G / DIV 773 FRUITS (SF108)

- G773280 Strawberries (everbearers) (1 pint)
- G773281 Grapes (2 bunches)
- G773282 Apples (5)
- G773283 Pears (5)
- G773284 Wild Plums (1 pint)
- G773285 Other Small Fruit or Berries (1 pint) (do not duplicate entries in classes 280-284)
- G773286 Other Fruits or Nuts (5) (do not duplicate entries in classes 280-284)

## DEPT G / DIV 773 EDUCATIONAL EXHIBITS

**G773290 Garden Promotion Poster: (SF103)** Individual poster promoting vegetable or herb gardening, size 14 inches x 22 inches either vertical or horizontal arrangement. Poster may be in any medium so long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be attached to the upper right-hand corner. The 4-H member's name, age and county must be on the back of the poster.



**G773291 Educational Vegetable or Herb Garden Poster: (SF104)**

Prepare a poster no larger than 14 inches x 22 inches x 2 inches (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project the 4-H'er has done or learned about in a 4-H vegetable gardening project. One might show a special technique used or equipment incorporated in the garden (e.g., drip irrigation system, composting, or special techniques learned.) Refer to 4-H horticulture project manuals but use your own creativity. Entry card must be **attached** to the upper right-hand corner. The 4-H member's name, age, county, and years in project(s) must be on the back of the poster.

**G773292 Vegetable and/or Herb Gardening History Interview:**

**(SF105)** Neatly handwritten or typed account of a gardening history interview of someone whose vegetable or herb garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include one picture of the person you interviewed) of their garden if the individual is still gardening. Protect with a clear report cover. The 4-H member's name, age, county, and years in project(s) must be on the back of the report.

**G773293 Vegetable Seed Display: (SF101)** each display must include seeds representing the following families: Cucurbit, Brassica (cabbage), Solanaceous (nightshade), and Legume (pea) families plus representatives from 5 other families. Group the seeds by family and type. Glue seed or otherwise fasten clear containers of seed to a board or poster mat board no larger than 22 inches x 24 inches. Label each group and each individual vegetable type with the common and scientific names. Use only one variety or cultivar of each vegetable, except for beans where several examples of beans may be shown. Attach a card to the back of the display explaining why and how it is important to know which vegetables are related and cite references on where the scientific name information was found. The 4-H member's name, age, county, and years in the project(s) must be on the back of the display.

**G773294 World of Vegetable Notebook: (SF102)** Choose a favorite foreign cuisine and learn what vegetable and/or herbs are common to it (e.g., Mexican, African, Chinese, Italian, etc.) Include a report talking about a minimum of 5 vegetables and/or herbs from each country chosen. Include the scientific and common names; pictures of the plants from your garden or seed catalogs; tell how they are grown; and how the foods are used. Also list a source for buying the seed or plants. Favorite recipes using some or all of the vegetables described may be included. Protect in a clear report cover or small 3-ring notebook. The 4-H member's name, age, years in the project(s), and county must be on the back cover of the report.

**G773995 Edible Container Garden(SF107): (Not Eligible for State Fair)** A minimum of three different edible plants are required. For example – exhibitor may wish to submit an herb garden – therefore, there has to be three different herbs included. Or if it is a mixed container, it might contain (at minimum) one herb, one vegetable, one flower. Supporting information is required to show the plants used are edible. May be any part of the plant that is edible (i.e., flower, fruits) but the edible part must be indicated in the supporting information. **Containers should be no larger than 12 inches (use inside opening measurement) in any dimension of length or width. No combination of pots may be used.**

## DEPT G / DIV 775 SPECIAL GARDEN PROJECT

**Resources: The Special Gardening Project changes annually. More information may be found at <https://4h.unl.edu/special-garden-project> The 2024 Special Garden Project is focused on the Princess India Nasturtium.**

**G775001 Special Garden Project - (SF109)-** Educational exhibit based on what was learned from the project. Present information on a poster 14 inches X 22 inches either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, and county must be on the back of the poster or report cover.

**G775002 Special Gardening Project Fresh Cut Flowers, Herbs or Harvested Vegetables - (SF109) -** The current year's Special Gardening Project fresh cut flowers, herbs or harvested vegetables should be entered in this class. Refer to classes 1-45 for quantity to exhibit if Special Gardening Project is a fresh cut flower (SF106). Refer to classes 201-252 for quantity to exhibit if Special Gardening Project is a vegetable (SF108). Flowers and herbs must be cut not potted.

# LANDSCAPE DESIGN

## (NOT Eligible for State Fair)

**Rules:** The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster or on the portfolio.

## DEPT G / DIV 777

### LANDSCAPE: GROW A BEAUTIFUL SPACE

**G774902 Establish Landscape Analysis Poster: (SF110)** Take multiple photographs of a landscape that has been established for 10 or more years. Critique the landscape based on each of the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis). Describe the spatial definition of the landscape and what different areas of the landscape "feel like". Include photos taken to support your critique. Describe what changes need to be made in the landscape to improve its characteristics and sense of space. Display on a poster mat board no larger than 22 inches x 28 inches.

**G774904 Landscape Renovation Poster: (SF111)** Take multiple photographs of a landscape that doesn't quite look right because it doesn't reflect sound design principles. Select a landscape in which you can make at least three design recommendations. Identify how the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis) could be better integrated into the landscape, and how plants or materials with specific features (size, form, color, or texture) could improve the space. Reduce the opaqueness of the images to 50-60 percent and sketch plants, structures, materials, and/or amenities that could improve the overall design over the original images. The poster should include the original image(s) and improved image(s) and include a short explanation of how the landscape design was improved. Display on a poster mat board no larger than 22 inches x 28 inches.

**G774905 Estimating Dreams Poster: (SF111)** Select a dream landscape as if money is not a consideration. Develop a plan drawing of the landscape. Draw landscape to scale. Identify the types of plants, structures, and amenities used in the landscape. Research the cost of the plants and amenities and the installation. Include the general cost of grading (if needed) and labor that could be associated with installation. Create a list, noting the plants that are included in the space. The quantities of plants and the structures, materials, or amenities and their cost should be included. Calculate the final total estimate. The poster should include the scale drawing of the landscape, identification of plants, structures and amenities, and cost and labor. Display on a poster mat board no larger than 22 inches x 28 inches.

**G774906 Site Inventory & Analysis Poster: (SF111)** Make an unscaled drawing of the landscape you inventoried and analyzed. Develop two drawings: a site inventory and a site analysis. The site inventory and site analysis should be communicated through a combination of written notes, graphics symbols and photographs. Display on a poster mat board no larger than 22 inches x 28 inches.

**G774907 Community Landscape Poster: (SF111)** Identify a local community space (park, nursing home, school, county fairgrounds, etc.) that needs some landscape improvements. Work through the design process and develop a detailed plan of your improvements to the space. The plan should include design principles, functional and aesthetic factors, list of plants and materials and their costs, budget for materials, labor you have available for the project, and a timeline. Take photographs of the area and draw over the photos to illustrate your final ideas. Include photographs of the finished landscape if project ideas were carried out. Display on a poster mat board no larger than 22 inches x 28 inches.

**G774908 Renovate The Outdoors Portfolio: (SF111)** Select a space you would like to redesign. The space can be at your home, a family member's, or friend's house, or somewhere in your community. Develop a scaled base map of the site and locate the existing plants and structures in the landscape. Take photographs of the landscape. Evaluate the physical properties of the site and conduct an interview with the people who live there or use the space. Think about how you would change the space and develop a plan that would implement design elements into the space. Create different drawings that will move you through the design process. You will draw concept diagrams, form compositions, preliminary drawings, and the final design. Once the final design drawing is complete, use overlays on the original photographs to show how the landscape will look compared to how it looked in the photo you originally took of the landscape. Place photographs, interview notes, concept and program statements and drawings in a portfolio.

# ENVIRONMENTAL EDUCATION & EARTH SCIENCE

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## ENTOMOLOGY

Entomology exhibits give 4-H'ers the opportunity to demonstrate their knowledge about insects and insect displays. This category has multiple projects that allows 4-H'ers to progress over numerous years. For help getting started with this project contact your county 4-H extension office.

### Rules:

- A. Specimens in display collections should be mounted properly and labeled with location, date of collection, name of collector, and order name.
- B. Follow mounting and labeling instructions in the Nebraska 4-H Entomology Manual.
- C. Boxes are preferred to be 12 inches high X 18 inches wide, and landscape orientation.
- D. Purchase of commercially made boxes is allowed.
- E. All specimens are to be pinned and labeled by the exhibitor. No purchased specimens allowed.
- F. No projects over 50 pounds allowed.

**Scoresheets**, forms, contest study materials, and additional resources can be found at: <https://go.unl.edu/ne4hentomology>

**Special Awards:** Premier 4-H Science Award is available in this area. Please see <https://4hfairbook.unl.edu/fairbookview.php/contests/51> for more details.

**Resources:** Learn the difference between an insect and a bug; Identify insect parts and know why each is important; Find and examine bugs and insects in the field; Design your own insect or create a home for an insect; Make an insect collection; Learn where to look for insects; Learn how to identify and classify insects; Complete an insect collection table; Plan an insect collection trip; Raise meal worms; Explore insect legs and collect insects with an extractor; Test ant food preferences; Conduct honey bee learning experiments; Record insect observations; Identify insect mouth types

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/61](https://4hcurriculum.unl.edu/index.php/main/program_project/61)

## DEPT H / DIV 800 ENTOMOLOGY

### H800901 Entomology Insect or Butterfly Display (SF186) –

Collection of 10-20 insects or butterfly; follow directions for mounting and labeling. **NOT ELIGIBLE FOR STATE FAIR.**

### H800902 Single pinned insect with informational display (SF186) –

follow directions for mounting and labeling. **NOT ELIGIBLE FOR STATE FAIR.**

### H800001 Entomology Display / First Year Project: (SF186)

Collection to consist of 25 or more different kinds (species) of insects representing at least 6 orders. Limit of one box.

### H800002 Entomology Display / Second Year Project: (SF186)

Collection to consist of a minimum of 50 kinds (species) of insects representing at least 8 orders. Replace damaged or poorly mounted specimens. At least 25 species must be present from after July 1 of the previous year. Limit 2 boxes.

### H800003 Entomology Display / Third or More Year Project:

**(SF186)** Collection to consist of minimum of 75 kinds (species) of insects representing at least 10 orders.

Replace damaged or poorly mounted specimens. At least 25 species must be present from after July 1 of previous year. Limit 3 boxes.

### H800004 Special Interest or Advanced Insect Display: (SF187)

Educational display developed according to personal interests and/or advanced identification capability. This also is an opportunity to highlight favorite insects in a creative arrangement. Insects should conform to pinning and mounting standards as in Classes 1-3 and be protected in an insect box. Each specialty display should include names of the insects, interesting information about them, and why the display was made. Advanced identification collections should have insects grouped with labels that correspond with identification level (e.g., family, genus, species). A specialty collection may consist of insects by taxonomic group (e.g., butterflies, grasshoppers, dragonflies, scarab beetles) or by host, subject, or habitat (e.g., insect pests of corn, aquatic insects, insect mimicry, insect galls, insects from goldenrod, insect pollinators, etc.).

### H800005 Insect Habitats: (SF186)

Habitats consist of any hand-crafted objects, made of natural or artificial materials, placed outdoors, which promote or conserve insects in the environment. Insects may include bee pollinators, butterflies, beneficial insects, etc. A one-page report describing activities must accompany the exhibit. Report should include placement, target insect, why materials were chosen, functional design, and indicators of success. See the following resources for reports:

- Nebraska Extension NebGuide: Creating a Solitary Bee Hotel (G2256)
- University of Minnesota: Wild Bees and Building Wild Bee Houses National Wildlife Federation:
- How to Provide Water in Monarch Gardens

**H800006 Macrophotography: (SF189)** Subjects should be insects, spiders or other arthropods, or any nests, webs, or constructions they made. All exhibit prints should be either 8 inches x 10 inches or 8 ½ inches x 11 inches and mounted on rigid, black 11 inches x 14 inches poster or mat board. Either orientation is acceptable. No frames or mat board framing is allowed. A caption of a few sentences should explain the subject and be printed on white paper and glued below the print on the poster or board.

**H800007 Insect Poster/Display Exhibits: (SF190)** Exhibits can be posters or three-dimensional displays, and artistic creativity is encouraged. Posters should be no larger than 22 inches x 28 inches. They should be instructional and can be attractive and have pictures, drawings, charts, or graphs. Posters and displays may show any aspect of insect life, habitat, or related conservation or management. Examples include life history and other facts about an insect; insect anatomy; how to manage insects in a farm, home, lawn, or garden setting; experiences rearing one kind of insect; survey of an important insect; insect behavior (ex. nesting, finding food, mobility, defenses, etc.); habitats (e.g., forests, grasslands, wetlands, rivers, or lakes) and what insects are found there, etc. Three-dimensional displays, such as dioramas, sculptures, models, or decorative boxes should have a page of explanatory information accompanying them and fit within a 22 inches x 28 inches area.

**H800008 Reports or Journals: (SF191)** Reports and journals should be in a 3-ring binder. A report may be informational, that is, an original article about a favorite insect, a history of insect outbreaks, diseases caused by insects, insects as food, etc. Or it may be a research report about an investigation or experiment done in a scientific manner. It then should have a basic introduction of the insect studied, methods used, observations, and results of the project. Tables, graphs, and images are helpful to include. A journal is an observational study over a period of time with personal impressions. It may cover watching changes of kinds of butterflies over the summer, rearing a specific insect from egg to adult, managing a beehive, observations of insects in a specific habitat, accounts of insect behavior in a forest or flower garden, etc.

## FORESTRY

This category provides 4-H'ers an opportunity to prepare displays that shows their expertise in many aspects of forestry. Involvement in this category will lead to expansion of seed, twig, wood, leaf, and tree knowledge for 4-H'ers. In addition, participants would learn more about common Nebraska trees. For more information about tree classification visit this website:

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/65](https://4hcurriculum.unl.edu/index.php/main/program_project/65)

### Rules:

- 1) The official reference for all forestry projects is the Tree Identification Manual (4-H332) <https://marketplace.unl.edu/ne4h/4h332.html> which was recently revised and is available for purchase from UNL Marketplace. Other helpful forestry references include Trees of Nebraska (EC 92-1774-X), Leafing Out (4-H431) and Plant a Tree (EC 17-11-80). <https://marketplace.unl.edu/ne4h/leafing-out.html>
- 2) Display "boards" must be made from wood or wood composite, e.g., plywood, fiberboard, or Masonite, ¼ inch to ½ inch thick and no larger than 24 inches x 24 inches. Display boards may be coated, e.g., painted or varnished, on both sides to prevent warping.
- 3) Display "posters" must be made from a material, e.g., foam board or poster board that will stand upright without buckling and be no larger than 24 inches x 24 inches.
- 4) Display "books" must measure no more than 16 inches x 16 inches.
- 5) At least 5 of the 10 samples in Class 2, 3, 4, and 5 must be from the list of 60 species described in 4-H 332. Samples must be from 10 different tree species. For example, Emerald Queen Maple and Crimson King Maple are both varieties of the same species (Norway Maple), and thus have the same genus and species name, i.e., *Acer platanoides*. All samples must be from trees, NO shrubs. If more than 10 samples are included in the display, only the first 10 samples from the current year will be judged.
- 6) Due to emerald ash borer infestation, no true ash species (Green Ash, White Ash, Black Ash, or Blue Ash) may be included in any collections. Inclusion of a true ash species will result in the project being disqualified.
- 7) Remember that other general labeling standards apply. For example, scientific names are always italicized or underlined. Also, the first letter of a Genus name is always capitalized. The first letter of a species name is always lower case. When required, always indicate complete scientific names (Genus and species) and common names, (e.g., Norway Maple) even when "variety names" are included. For example, the scientific name of Emerald Queen Maple is *Acer platanoides* and the common name is Norway Maple. "Emerald Queen" may be included as the variety name, but variety names are not required. How well the exhibitor follows written directions is an important factor in judging.
- 8) How well the exhibitor follows written directions is an important factor in judging.

**Scoresheets**, forms, and contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hforestry>.

**Special Awards** - Premier 4-H Science Award is available in this area.

For more details about this award visit this website

<https://4h.unl.edu/fairbook/premier-science-award>

**RESOURCES:** Learn to use a dichotomous key to classify trees; Identify common Nebraska trees

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/65](https://4hcurriculum.unl.edu/index.php/main/program_project/65)

## DEPT D / DIV 320 - FORESTRY

**D320001 Design Your Own Exhibit: (Class1)** Prepare an educational exhibit about some aspect of trees, forests, or forestry that is of special interest to you. Possible topics include paper recycling, wildfire, forest products, forest wildlife, or forest pest. The only requirement is that the display must be no larger than 24 inches x 24 inches. Photographs, drawings, samples, charts, posters, etc. can be used, but include substantially different from other display classes. Be as creative as you like.

**D320002 Leaf Display: (Class2)** The leaf display must include samples of "complete leaves" from at least 10 different tree species. The display must include at least two samples of simple leaves, compound leaves, and conifer leaves. Leaves should be pressed, dried, and mounted.

- **Leaf Collection:** Whenever possible, collect leaves from mature trees. Collect leaves any time after they have reached full size, usually beginning in early summer. The leaf sample should be in good condition and representative of the average leaves on the tree. Keep in mind that shaded leaves are often much larger than normal. Carefully remove leaves from the twig with the entire petiole or rachis intact. After collection, fresh leaf samples can be temporarily stored within the pages of an old magazine, but they should be properly pressed and dried for display. Be sure to record pertinent information during collection. All collection must be done by exhibitor.
- **Mounting:** Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, for example, wire, glue, tape, staples, plastic bags but be sure all their features can be clearly identified.
- **Labeling:** The label for each sample must include:
  - 1) Common name
  - 2) Scientific name
  - 3) Leaf type
  - 4) Leaf arrangement (for broadleaf trees)
  - 5) Leaf composition (for broadleaf trees)
  - 6) Collector's name
  - 7) Collection date
  - 8) Collection location (be specific, state and county at a minimum)
- If a twig is included with a sample, indicate "twig included" on the label. For example, the twig may be included with an eastern cedar sample because the leaves are very small and difficult to remove from the twig.
- **Supplemental information:** e.g. general uses, common products, fall color, etc., may be included to enhance educational value.

**D320003 Twig Display: (SF33)** The twig display must include twig samples from at least 10 different tree species. The display must include at least two samples of opposite and alternate leaf arrangements from broadleaf trees.

- **Collection:** Twig samples should be collected during the dormant season. (November – April) when the buds are mature. Twig samples must be at least 6 inches long and exhibit buds. Leaves must be removed, and side branches must be trimmed to less than 1 inch in length. All collection must be done by the exhibitor
- **Mounting:** Twigs must be mounted on a display board. Any method (e.g., wire, glue, tape, staples, plastic bags, etc.) may be used to mount twigs, but be sure all their features can be clearly identified. The non-terminal ends must be cut at a slant so the pith can be seen.
- **Labeling:** The label for each sample must include:
  - 1) Common name
  - 2) Scientific name
  - 3) Leaf arrangement (for broadleaf trees)
  - 4) Collector's name
  - 5) Collection date
  - 6) Collection location (be specific, state and county at a minimum)
- **Supplemental information:** e.g. general uses, tree characteristics, etc., may be included to enhance educational value.



**D320004 Seed Display: (SF34)** The seed display must include seed samples from at least 10 different tree species.

- **Collection:** Tree seeds should be collected at the time of year when they mature, which varies widely depending upon tree species. For example, Silver Maple seeds mature in May while red oak acorns do not mature until September. Seed samples should be free of insect or disease symptoms. Remember to display the seeds not fruit. For example, the seed of honeylocust is enclosed in a pod. Remove and display the seed not just the pod. It is acceptable to display the fruit with the seed, but clearly label each. All collection must be done by the exhibitor
- **Mounting:** Seeds may be displayed in a variety of ways. E.g., mounted on a display board, displayed in jars in a rack, etc., but they must be securely mounted and easily viewed. Be as creative as you like.
- **Labeling:** The labels for each sample must include:
  - 1) Common name
  - 2) Scientific name
  - 3) Type of fruit, if known (e.g. -samara, pod, nut, legume, etc.)
  - 4) Collector's name
  - 5) Collection date
  - 6) Collection location (be specific, state and county at a minimum)
- **Supplemental information:** e.g. maturity date, average number of seed in the fruit, etc., may be included to enhance educational value.

**D320005 Wood Display: (SF36)** The wood display must include wood samples from at least 10 different tree species.

- **Preparation:** Samples may be of any shape, e.g., sections from a board, wood cylinders turned on a lathe, horizontal or vertical cross sections of a small log with bark attached, etc. but all samples should be the same shape, e.g., all wood cylinders or all sections of a board. **Each sample can be no larger than 4 inches x 4 inches x 4 inches.** Cut surfaces should be sanded to show the grain. Treating samples with a clear finish (no stain) is optional. All collection must be done by the exhibitor
- **Mounting:** Samples may be displayed in a variety of ways, e.g., mounted on a display board, displayed in a box or rack, etc., but they must be securely mounted and easily viewed. Be as creative as you like.
- **Labeling:** The label for each sample must include:
  - 1) Common name
  - 2) Scientific name
  - 3) Wood type (softwood or hardwood)
  - 4) Collector's name
  - 5) Collection date
  - 5) Collection location (be specific, state and county at a minimum)
- **Supplemental information:** e.g. common products, wood density, etc., may be included to enhance educational value.

**D320006 Cross-Section Display: (SF38)** A disc cut from a tree species listed in 4H 332. The sample must be collected, by the exhibitor, within one year of the state fair judging day. The disc must measure 6 to 12 inches in diameter and 1 to 3 inches thick. The bark should be firmly attached, which may be difficult if the tree was dead when the disc was cut. Sand at least one side of the disc so the grain can be easily seen. If the disc is treated with a clear finish, both sides must be treated to minimize warping. As the disc dries, some cracking or checking can be expected and is allowed.

- **Labeling:** The following parts must be clearly and accurately labeled on the cross section with pins, paper tags, or some other form of identification.
  - 1) Pith
  - 2) One growth ring-beginning to end
  - 3) Heartwood
  - 4) Sapwood
  - 5) Cambium
  - 6) Bark
- A separate label attached to the back of the disc must include:
  - 1) Common name
  - 2) Scientific name
  - 3) Tree Classification (softwood or hardwood)
  - 4) Age (of the cross section)
  - 5) Collector's name
  - 6) Collection date
  - 7) Collection location (be specific – state and county at minimum)

**D320007 Parts of a Tree: (SF39)** (*This project is only for ages 8 – 11*). Prepare a poster, no larger than 24 inches x 24 inches that clearly identifies the main external parts of any tree:

- 1) Trunk
  - 2) Crown
  - 3) Roots
  - 4) Leaves
  - 5) Flowers
  - 6) Fruit
  - 7) Buds
  - 8) Bark
- Identifying other internal parts, for example xylem, phloem, cambium, annual rings, etc. is optional.
  - Attach a separate label on the back of the poster that includes the exhibitor's name and age.

**D320008 Living Tree Display: (SF40)** A living tree seedling grown by the exhibitor from seed in the display container. The seed must be from a species listed in 4-H 332. The seedling must be 60 days to 1 year old (on State Fair judging day). The display container must contain at least 8 inches of soil (potting mix or suitable natural soil), have a drainage hole(s), and a drain pan to catch drainage water.

- **Labeling:** A waterproof label must be attached and include:
  - 1) Common name
  - 2) Scientific name
  - 3) Seed treatments(if any)
  - 4) Planting date
  - 5) Emergence date
  - 6) Exhibitor's name
- **Supplemental information** about the tree (e.g., where the seed was collected, growth measurements, uses for that species, etc.) may be included in an attached notebook, poster, etc. to enhance educational value. Supplemental information will be an important factor in judging.

**D320009 Forest Product Display: (SF40)** - Prepare a visual display and/or collection tracing the origin of one non-lumber product that comes from trees and/or forests. The display must be no larger than 24 inches x 22 inches x 28 inches. Photographs, drawings, samples, charts, posters, etc. can be used. Posters submitted may be no larger than 22 inches x 28 inches and may be either vertical or horizontal. The contestant must identify what species of tree the product is derived from and where the product is harvested, grown, or otherwise collected. The product listed must be partially or fully derived from trees, if partial the approximate percentage should be articulated in the display.

- The goal of this exhibit is for students to learn that many products come from trees and forests and to explore one of these products through in-depth study.
- Information about the tree or forest product: e.g., information about harvesting, processing, industry information, and environmental or other benefits may be included to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.
- Personal interviews with industry professionals are encouraged as a source of information.

**D320010 Forest Health Display: (SF40)** Prepare a visual display outlining a specific forest health issue such as a tree disease, insect pest, animal- or human-caused damage, or an abiotic issue such as weather damage. The display must be no larger than 24 inches x 24 inches x 24 inches. Original photographs, drawings, samples, charts, posters, etc. can be used. Actual specimens are strongly encouraged but must be properly preserved, i.e., insects pinned or placed in vials of alcohol, leaves pressed and dried. Posters submitted may be no larger than 24 inches x 24 inches.

- Explain through the display what species of trees the health issue affects, diagnostic features of the issue (symptoms in trees, identifying features of the pest, etc.), and management options.
- Include common and scientific names of trees and pests.
- Supplemental information about the tree or forest health issue: e.g., origin, proliferation in Nebraska/United States, and physiological effects on the tree may be included to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.
- Attach a separate label on the back of the display that includes the exhibitor's name and age.

**D320011 Wildfire Prevention Poster: (SF40)** Prepare a poster, no larger than 24 inches x 24 inches that promotes wildfire prevention strategies. Strategies articulated in the poster can include personal and/or land management actions. Attach a separate label on the back of the poster that includes the exhibitor's name and age.

- Supplemental information about wildfire prevention should be attached to the poster: e.g., frequency of wildfires in Nebraska/United States, financial costs of wildfires, environmental factors that contribute to wildfires, etc. to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information



**D320012 Sustainable Landscape Diorama:** (SF40) Box must be no larger than 24 inches x 24 inches. The exhibit must show a Nebraska landscape that includes elements such as windbreaks, fields, pastureland, CRP, public lands, community/municipal landscapes. The goal of this exhibit is for students to articulate conservation and sustainability best-practices that can be implemented on a landscape, while addressing landowner and other stakeholder interests.

- Label point/nonpoint sources of pollution, carbon sequestration, water-wise practices, wildfire prevention strategies, renewable energy sources, and other conservation practices as well as at least 10 species of plants included in the diorama.
- Attach to the exhibit a brief report including supplemental information describing the diorama, defining conservation practices, and outlining opportunities for landscape improvements to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

**D320013 Tree Planting Project Display:** (SF40) Plant a tree in your community. Prepare a visual display where the student articulates proper tree planting techniques, why the individual tree species was chosen, as well as steps taken to continue care for the tree after initial planting. The display must be no larger than 24 inches by 24 inches by 24 inches. Photographs, drawings, samples, charts, posters, etc. can be used. Posters submitted may be no larger than 24 inches x 24 inches. The tree must have been planted 60 days to 1 year before State Fair judging day. Students must obtain permission from necessary authorities and property owners before planting any trees.

- **Labeling:** the following information about the tree must be included in the display:
  1. common name
  2. scientific name
  3. planting location
  4. planting date
  5. tree source
  6. planter's name
  7. proper tree planting steps
  8. tree care (after planting)
- Supplemental information about the tree: e.g., why the species was chosen, growth measurements, uses for that species, etc., may be included in an attached notebook, poster, etc. to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

# CONSERVATION, WILDLIFE, SHOOTING SPORTS

Conservation, Wildlife and Shooting Sports gives 4-H members an opportunity to share their knowledge and field experience about conservation, wildlife and shooting sports. **When creating an exhibit make sure to pay close attention to the rules while considering the different laws that surround those areas.**

## Rules:

1. **Show What You Did and Learned:** All exhibitors must show evidence of their personal field experiences, study or observations that relate to their exhibit. This helps judges understand what the 4-H'er did and learned in the process that led to the exhibit.
2. **Proper Credit:** Show proper credit by listing the sources of plans or other supporting information used in exhibits.

Example to attach to your exhibit

**Name:** Chris Clover  
**County:** Clover County  
**Age:** 10

### Field Experience, Study, or Observations:

I attended a 4-H workshop where we put out a food plot, and then made turkey calls. We played a game about attracting turkeys. Sometimes we acted like a female to draw in a tom turkey. Sometimes we acted like a lost baby turkey to call in a whole flock. I was able to use my turkey call and play the game successfully. While I never turkey hunted in person, I went on-line to research more turkey calls. I hope to turkey hunt someday, and I want to use a box call to hunt fall turkeys.

### Credits/Source:

Information was obtained from Nebraska Game & Parks website

3. **Whose Exhibit:** The exhibitor's name, county, and age must be on the back or bottom of all displays.

4. **Wildlife and Wildlife Laws:** "Animal" or "wildlife" in the following classes includes wild fish, amphibians, reptiles, birds, or mammals. Please make sure you are following all wildlife laws. **Domestic animal (i.e. domestic livestock or house pets) and insect exhibits are not appropriate for this area.**

5. **Project Materials:** Related project booklets include Exploring Your Environment Series, 4-H Shooting Sports, Amphibians, Bird Behavior (EC 59381), Fishing for Adventure Project Manuals, Wildlife Conservation (4-H 125), Geology, and Outdoor Adventure. Other resources include: Outdoor Skills: Learning Science in the Outdoors series (Science Signature Outcome Program) [outdoornebraska.gov/afterschool/](https://outdoornebraska.gov/afterschool/) and [www.whep.org](http://www.whep.org)

6. **Board and Poster Exhibits:** Mount all board exhibits on ¼ inch plywood, Masonite, or similar panel no larger than 24 inches high x 24 inches wide. Poster exhibits should be on regular poster sheets, no larger than standard size (22 x 28 inches) but half size, 22 x 14 inches, is recommended.

7. **Exhibit Size:** Exhibits other than poster/display board should not exceed 48 inches x 48 inches and be able to be moved by two people.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hconservation-wildlife-shooting>.

## Resources:

### 22 Rifle

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/186](https://4hcurriculum.unl.edu/index.php/main/program_project/186)

### Air Pistol

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/187](https://4hcurriculum.unl.edu/index.php/main/program_project/187)

### Air Rifle

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/188](https://4hcurriculum.unl.edu/index.php/main/program_project/188)

**Amphibians** - Identify native amphibians; Conduct field research; Learn about ecosystems

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/68](https://4hcurriculum.unl.edu/index.php/main/program_project/68)

### Archery

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/189](https://4hcurriculum.unl.edu/index.php/main/program_project/189)

### BB Gun

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/190](https://4hcurriculum.unl.edu/index.php/main/program_project/190)

**Bird Behavior** - Learn about different types of bird behavior; Start a lifetime bird list; Find out how to attract birds to backyards

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/69](https://4hcurriculum.unl.edu/index.php/main/program_project/69)

**Fishing For Adventure 1** - Develop angling skills; Create fishing tackle; Learn how to be a good steward of aquatic resources

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/70](https://4hcurriculum.unl.edu/index.php/main/program_project/70)

### Muzzleloader

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/203](https://4hcurriculum.unl.edu/index.php/main/program_project/203)

### Shotgun

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/192](https://4hcurriculum.unl.edu/index.php/main/program_project/192)

### Smallbore Pistol

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/193](https://4hcurriculum.unl.edu/index.php/main/program_project/193)

### Taxidermy

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/206](https://4hcurriculum.unl.edu/index.php/main/program_project/206)

**Wildlife Conservation 1** - Learn about the history of wildlife conservation; Explore the values of wildlife to humans; Learn wildlife management terms

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/73](https://4hcurriculum.unl.edu/index.php/main/program_project/73)

**Wildlife Conservation 2** - Learn about wildlife habitats; Make a nature diorama; Explore wildlife communities and ecosystems

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/74](https://4hcurriculum.unl.edu/index.php/main/program_project/74)

**Wildlife Conservation 3** - Learn about the interface between people and wildlife; Explore why and how we manage wildlife; Learn about threatened and endangered species

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/75](https://4hcurriculum.unl.edu/index.php/main/program_project/75)

### Wildlife Habitat Evaluation

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/204](https://4hcurriculum.unl.edu/index.php/main/program_project/204)

**Outdoor Adventures** – Level 1 Hiking Trails

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/210](https://4hcurriculum.unl.edu/index.php/main/program_project/210)

**Outdoor Adventures** – Level 2 Camping Adventures

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/211](https://4hcurriculum.unl.edu/index.php/main/program_project/211)

**Outdoor Adventures** – Level 3 Backpacking Expeditions

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/212](https://4hcurriculum.unl.edu/index.php/main/program_project/212)

## DEPT D / DIV 340

### WILDLIFE and HOW THEY LIVE

**Rules:** Classes 1-4 are board or poster exhibits. Display may show any aspect of wildlife, wildlife habitat, or related conservation. No domestic livestock, pets, or insects allowed. For more ideas, refer to project booklets. Remember to look at General Rules for this area.

**D340001 Mammal Display (SF154)** Examples: life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town; managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife behavior and habitats.

**D340002 Bird Display (SF154)** Examples: life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town; managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife behavior and habitats

**D340003 Fish Display (SF155)** Examples: life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town; managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife behavior and habitats.

**D340004 Reptile or Amphibian (SF156)** Examples: life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town; managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife behavior and habitats.

**D340005 Wildlife Connections: (SF157)** Board or poster exhibit. The purpose of this display is to show interconnections and related aspects among animals, plants, and other habitat components. All displays should show two or more interactions (connections) that occur between/among animals or between animals and their habitat. Displays might show how animals interact with other animals, with people, or with their habitat. Examples:

- 1) Food chain display. Use pictures, drawings, or other items to illustrate the source of food energy and where it goes - who eats whom or what. Use arrows to show the direction of the energy (food) flow.
- 2) Show the role of predators, scavengers, insect eaters, or others in nature.
- 3) Show how wildlife numbers (populations) change through the year.
- 4) Show predation, competition, or other behavioral interactions of wildlife.
- 5) Choose one kind of wildlife and make observations through a season or year, keep notes of interactions, then make a display of what you saw.

**D340006 Wildlife Tracks: (SF158)** Board or diorama-type box exhibit. Make a display of animal tracks using plaster-of-paris casts. There are 3 options. For all options, include a brief description of your experiences in making the tracks so the judges better understand what you did and learned. Positive casts (impressions as they would be in nature) are preferred. Option 1 should show plaster-of-paris tracks of five or more kinds of wildlife along with a picture or illustration of each kind of animal.

Option 2 should show two or more plaster-of-paris tracks of one specific kind of wildlife and should include a picture or illustration of the animal, what the animal may eat, and what may eat the animal.

Option 3 should show two tracks and include the animal's habitat needs including preferred food, shelter, water, and space in addition to picture or illustration of the animal.

**D340007 Wildlife Knowledge Check: (SF159)** Use electrical circuits, pictures, or other methods of teaching wildlife identification or other wildlife conservation or shooting sports related knowledge. Plan size and shape to fit transportation and display; maximum size 24 x 24 inches.

**D340008 Wildlife Diorama: (SF160)** Exhibit must be no larger than 24 inches x 24 inches. The exhibit might show a grassland, prairie, agricultural, woodland, riparian (stream or river corridor), wetland, and/or other area with wildlife habitat. Example: show an area interspersed with several habitats such as windbreaks, farm fields, woods, waste areas, ditches, and pastures for edge-adapted species such as white-tailed deer, Northern bobwhite, mourning doves, cottontail rabbits, fox, squirrels, Northern cardinals, or blue jays. Label the habitats displayed and show at least five kinds of wildlife in their proper habitats.

**D340009 Wildlife Essay: (SF161)** Learn how to share educational information by writing. Choose a conservation or wildlife topic that interests you and write an essay about it. For example, write about a particular species of wildlife that you have observed or about the values of wildlife. You might write about wildlife on a farm, in town, in a backyard, at a backyard feeder, or at other places. You might write about ethics, proper behavior in the outdoors, hunting, or fishing. The essay is between 100 and 1000 words long and typed, double spaced on 8 ½ x 11 paper. You might use books, magazines, or personal interviews as resources, but you must give credit to all sources by listing them.

**D340010 Wildlife Values Scrapbook: (SF162)** Make a scrapbook about the various values of wildlife. This would include aesthetic, scientific, commercial, game, genetic, and/or ecological. One resource would be the Wildlife Conservation project booklet (4-H 125).

**D340011 Wildlife Arts: (SF163)** The purpose of this class is to allow artistic exhibits that contain educational information about conservation and wildlife. Examples might include paintings, photographs, wood carvings, painted duck decoys, or songs or poems written by the exhibitor. Entries must be appropriate for fair display and no larger than 24 inches x 24 inches. For example, paintings or photographs should be displayed in notebook format or mounted on a sturdy display panel. All entries must include a title and brief explanation of the purpose or message (what is the exhibit meant to show).

## DEPT D / DIV 361

### OTHER NATURAL RESOURCES

**D361001 Design Your Own Exhibit in Natural Resources, Conservation or Ecology: (SF164)** This class is for educational exhibits about natural resources, conservation, wildlife, or ecology that do not fit into to other categories. Entries must be appropriate for fair display and no larger than 24 inches x 24 inches. All entries must include a title and should be clear (a brief explanation or other method) about the intended purpose or message – what the exhibit is meant to show. Think about accuracy, creativity, educational value for viewers, and evidence of exhibitor's personal experiences and learning.

## DEPT D / DIV 342 WILDLIFE HABITAT

**D342001 Houses: (SF165)** Make a house for wildlife. EXAMPLES: bird house (bluebird, purple martin, wood duck, kestrel, barn owl, etc.) or bat house; no insect houses. Make the house functional so that dimensions, hole size etc. are appropriate to fit the intended species' needs. Include the following information:

- 1) The kinds of animal(s) for which the house is intended
- 2) Where and how the house should be located for best use
- 3) Any seasonal maintenance needed
- 4) Any evidence of your personal observations or experiences

\*Tips: Check NebGuide on bird houses and shelves.

**D342002 Feeders/Waters: (SF166)** Make a bird bath or bird feeder. Examples: seed, suet, or nectar feeders. Squirrel feeders are acceptable. **No insect feeders.** Include the following information:

- 1) the kinds of animal(s) for which the water/feeder is intended
- 2) where and how the water/feeder should be located for best use
- 3) How it should be maintained
- 4) any evidence of your personal observations or experiences

\*Tips: Check NebGuide on feeding birds.

**D342003 Wildlife Habitat Design Board or Poster Exhibit: (SF167)** Choose a backyard, acreage, or farm, and design a habitat plan to meet the food, water, shelter, and space needs of at least three kinds of animals you would like to attract. Draw an outline of the area and show what plants or other habitat will be provided. Indicate how the various parts of your plan provide the desired habitat needs. You might include an aerial photo of the area if you have one.

## DEPT D / DIV 343

### HARVESTING EQUIPMENT

#### D343001 Fish Harvesting Equipment: (SF168) Board Exhibit:

Display of equipment used in fish harvesting. EXAMPLES: fishing knots, hooks (with corks over ends for safety), lures. Label all items displayed. Include in your exhibit the following information:

- 1) The purpose of each item
- 2) When or where each item is used
- 3) Any personal experiences you've had with the item(s).

#### D343002 Build a Fishing Rod: (SF169) Rod building kits with instructions are available for this purpose. A fishing rod educational exhibit may not exceed 96 inches in length. Exhibit must be mounted on a board. Include with the exhibit:

- 1) Explanation of cost of materials/components, where materials/components were purchased, and how many number of hours required for construction.
- 2) Label all parts. Necessary components which must be included are grip, line guides (based on manufacturers specifications), guide wraps, and hook keeper. Reel seat needs to be aligned with guides, and guides aligned accurately down rod. Guide wraps of size A to D, nylon, or silk thread.
- 3) Exhibit will be judged on: workmanship, labeling of parts, information, and neatness.

#### D343003 Casting Target: (SF170) Make a casting target for exhibit. Target must be under 48 inches x 48 inches. Target must be under 48 inches x 48 inches. The bullseyes/rings must be 2 feet, outer band must be 1 foot in diameter and can have up to 3 rings. The exhibit must be easy to store, durable, and weather resistant. Include the purpose and rules of using your casting target.

#### D343004 Wildlife Harvesting Equipment (SF171) – Board Exhibit - Display of equipment used in harvesting wildlife. EXAMPLES: expended ammunition casings (no live ammunition permitted), steel traps, hide stretchers, fleshers, etc. For displays of shotguns, rifles, or bows, use drawing or pictures. Label all items displayed. Include in your exhibit the following information:

- 1) The purpose of each item
- 2) When or where it is used
- 3) Any personal experiences you've had with the item(s).

#### D343005 Inventing Wildlife/Fish Harvesting Equipment, Aid or Accessory: (SF168) Use engineering principles to invent or adapt equipment that helps you harvest fish or wildlife. This could be wildlife calls, adapted fishing pole for shallow water, a blind, decoys, etc. Share your drawing (or adapted plans), how the equipment works, how you tested it, and the results of testing your prototype and any adjustment you made.

## DEPT D / DIV 346 TAXIDERMY

#### D346001 Tanned Hides:(SF172) Exhibit of a wild animal hide properly processed by the member. No requirement as to mounting but must meet the size requirement listed under General Rules. Include the animal's name and the following: information about the exhibitor's personal field experiences, study, OR observations that relate to the exhibit.

#### D346002 Taxidermy (SF172) Any legal fish, bird, or other wild animal properly processed by the member. No requirement as to mounting but must meet the size requirement listed under General Rules. Include the animal's name and the following: information about the exhibitor's personal field experiences, study, OR observations that relate to the exhibit.

## DEPT D / DIV 347

### SHOOTING SPORTS EXHIBITS

#### GUIDELINES

4-H Shooting Sports requires youth to be under the direct leadership of a certified 4-H Shooting Sports Leader in either shotgun, rifle (bb gun), archery, pistol, black powder/muzzleloader, and/or hunting skills. No firearms can be entered as an exhibit, nor live ammunition; however, information can be shared through pictures. Classes 004-009 can be entered by anyone in the conservation and wildlife area. Remember to look at General Rules for this area.

#### D347001 Shooting Aid or Accessory: (SF253) Any item which helps the shooter/hunter better perform their sport, examples: rifle sling, kneeling roll, arm guard, shotgun vest, target boxes, shooting stick, etc. Include your design, or plans you adapted, what the item is and used for.

#### D347002 Storage Case: (SF254) An item with the purpose to safely hold a firearm, bow, ammunition, and/or arrows, examples: soft sided shotgun case, quivers, firearm safe. Include your design, or plans you adapted. Explain how the storage case is used.

#### D347003 Practice Game or Activity: (SF255) Invent or adapt an activity to practice or teach a project skill. Include pictures of youth playing the game, testimonials for 4-H members who played the game, what skill is being worked on, and directions for the game. Explain how you came up with the game or adapted it to fit the needs of your group members.

#### D347004 Science, Engineering, Technology Advancements of Shooting Sports, Conservation, or Wildlife Essay or Display: (SF256) Choose a specific area of shooting sports and share how it has advanced, include a timeline and photos or illustrations. Keep your topic narrow and manageable. Essays are limited to 1000 words and should be on 8 ½ x 11 paper.

#### D347005 Healthy Lifestyles Plan: (SF257) Include a shooter's (hiker's, camper's, angler's) diet and exercise plan, and how the 4-H member will benefit or improve from following the plan. Ideally, the 4-H member would follow the plan and include some journal entries about adaptations or improvements made while following the plan.

#### D347006 Citizenship/Leadership Project: (SF258) Share a display on a citizenship project or leadership project the 4-H member took on individually or with a group to improve some aspect related to 4-H Shooting Sports. Examples could be range development, conservation planting to attract wildlife, a camp, 4-H recruitment event. Include who benefitted from the project, what the 4-H member's role was, and any results.

#### D347007 Career Development/College Essay, Interview or Display: (SF252) Research opportunities for careers related to this area or opportunities for college majors or college activities to help discover using project skills beyond a person's 4-H career. Essays are limited to 1000 words and should be on 8 ½ x 11 paper. Interviews need to include a picture of the interviewee in their work setting, questions asked, and a transcript of answers.

#### D347008 Community Vitality Display: (SF251) Explore the difference shooting sports and hunting make in keeping Nebraska vibrant especially in rural area. Present facts and research in an interesting way for the public to learn from.

#### D347009 Ag Literacy - Value Added Agriculture Interview or Research Project: (SF250) Explore how traditional ag producers are adding value to their production agriculture operations through conservation efforts, hunting, raising pheasants, shooting sports related tourism, etc. Present finding in an interesting way for the public to learn from.

### COUNTY ONLY SHOOTING SPORTS EXHIBITS: (Not eligible for state fair)

Rules:

- **NO FIREARMS MAY BE EXHIBITED.**
- All **SHARP** items (i.e. - knives, broadheads, etc.) must be enclosed in a secure display case. Display cases should be 12" x 18" x 4" and should be displayed so judges can open them to examine items. Items must be secured in the case. All exhibits must have a card securely attached describing: The project and how it applies to Shooting Sports; Experience gained in making the project; and How the project will be used. Information should be neatly written or typed on one side only of the card
- All exhibits should be self-explanatory and educational to viewers. Written explanations should be short and neat.
- Name and address of exhibitor must be on the back of each exhibit. This should be permanently written on the project to identify the owner if entry card becomes lost.
- Dangerous or improperly prepared exhibits will not be accepted.

#### D347910 Archery Educational Display - Poster or display concerning the Shooting Sports archery project. Must be mounted on 1/4" or 3/8" plywood, Masonite, or similar panel, 24" high x 22-24" wide. Displays may be three dimensional not to exceed 2" from the face of the poster. Display may include safety, building, or using equipment, or any aspect of archery.

#### D347911 Archery Accessory - Any accessory such as quivers, targets, possible boxes, survival kits, etc. All items must be made by the exhibitor except for items such as a broadhead collection.



**D347912 Archery Equipment** - Includes all archery equipment which has been made by the exhibitor. NO BOWS are allowed due to safety and theft factors. Examples of acceptable items would include arrows, hand chipped flint arrow heads, etc. Bows made by exhibitor may be shown in a photograph story in this class.

**D347913 BB Gun/Air Rifle/Smallbore Rifle Education Display** - Poster or display concerning the Shooting Sports BB gun/air rifle/rifle project. Must be mounted on 1/4" or 3/8" plywood, Masonite, or similar panel, 24" high x 22-24" wide. Displays may be three-dimensional not to exceed 2" from the face of poster. Display may include safety, building, or using equipment, or any aspect of BB gun/air rifle/rifle.

**D347914 BB Gun/Air Rifle/Smallbore Rifle Accessory** - Any accessory such as shooting mats, slings, targets, etc. that have been made by the exhibitor. All items must be safe to display. (NO FIREARMS)

**D347915 BB Gun/Air Rifle/Rifle Equipment** - Includes equipment made by the exhibitor such as stocks, gun racks, target stands, etc. Custom firearms may be shown in a photo story in this class. (NO FIREARMS)

**D347916 Shotgun Educational Exhibit** - Poster or display concerning shotguns as part of the Shooting Sports project. Must be mounted on 1/4" or 3/8" plywood, Masonite, or similar panel, 24" high x 22-24" wide. Displays may be three-dimensional not to exceed 2" from the face of poster. Display may include safety, building, or using equipment, or any aspect of shotgun.

**D347917 Shotgun Accessory** - Any accessory made by the exhibitor such as trap vests, trap bags, sling, etc. All items must be safe to display. (NO FIREARMS)

**D347918 Shotgun Equipment** - Any equipment made by the exhibitor such as a custom stock or gun rack. (NO FIREARMS)

**D347919 Shooting Sports Record Book**

## **DEPT D / DIV 341 OUTDOOR ADVENTURES**

### **Level 1 HIKING**

*(Not eligible for state fair)*

**D341950 Poster (SF281)** Topics may include one of the following, but not limited to: trail map(s) you have hiked, hiking essentials, your hiking adventures, wildlife, or plants observed while hiking (birds, animal prints, butterflies, etc.), plan a hike, explain "Leave No Trace" and how this was followed during hiking, collection of photos from your hikes.

**D341951 Journal/Binder (SF281)** Written report of actual, virtual, or imagined trail(s) hiked with observations, OR field journal (notes of actual experiences, sights, sounds, smells, etc.), OR hiking trip diary. Feathers/leaf/flower pressings must be securely attached if included. Photos or drawings of observations encouraged.

**D341952 Hiking Safety (SF281)** Must include explanation of use of item, why selected/purpose of item and how it meets hiking needs. May include, but are not limited to, one of the following: a compact hiking safety kit, homemade compass, or homemade water purifier.

**D341953 Hiking Adventure Game (SF281)** Create a game of trails of outdoor adventures. Must be educational on one or more aspects of hiking, must include clear instructions as to the purpose and what can be learned by playing the game.

**D341954 Other Hiking Item(s) (SF281)** Must include what inspired the creation of the item(s) and its purpose. May include but are not limited to one of the following: hiking backpack, nature art, nature poem or story, homemade hiking snack mix displayed in a re-sealable plastic bag (include why ingredients were selected and nutritional value).

**D341955 Outdoor Adventure Toy/Game: (CFxxx)** Make or build a toy or game that can be used outside. Must include details of how the item was made, how it will be used and what was learned while making/building and using the item.

**D341956 Footprint Identification – Make a guide to take with you hiking that helps you identify different types of footprints you can come across on the trail. Keep it small, lightweight and weather resistant for your backpack.**

**D341957 Hiking Fashion Poster or Notebook – show your choices of clothing for the layering principle: core, second, third, and outer. Also include your footprint and what type of foot you have. Include the appropriate hiking shoes with each outfit.**

**D341958 Backpack Selection – Select and pack a backpack for a day hike. Include a picture of you wearing it properly adjusted and an explanation of what is in the backpack and the purpose of each item.**

### **Level 2 CAMPING**

**D341001 Poster (SF281)** - Topics may include, but not limited to one or more of the following; how to pitch a tent, knot tying, cooking over a campfire, how to start a campfire, wildlife and plants identified while camping, how to set up emergency shelter, dealing with weather, collection of photos from camping trips, "Leave No Trace" and how that was followed while camping, plan a camping trip, camping essentials, environmental issues/protecting natural resources, park or trail clean up, sanitation/hygiene while outdoors or use of GPS.

**D341002 Journal/Binder (SF281)** - Written report of virtual or actual camping/hiking trips with observations OR field journal (notes of actual experiences, sights, sounds, smells, etc.), OR camping or hiking trip diary. Explain growth in project, leading the hikes, planning the camping trip, now being able to identify the wildlife and nature around you and how identified (sight/sound/shape/smell/color). Feathers/leaf/flower pressings must be securely attached, if included. Photos of drawing of observations encouraged.

**D341003 Camping/Hiking Safety (SF281)** - Must include explanation of use of item and why selected/purpose, how it fits hiking/camping needs. May include, but are not limited to, one of the following: travel sized poisonous plants guide, camping first aid kit, weather/water safety or hand hygiene kit.

**D341004 Digital Media (SF281)** - Use digital media to show video/slideshow/presentation of setting up a tent (include why site is chosen) or protecting natural resources or environmental issues or computer video camping/hiking game. Submit a USB drive or DVD inside a report cover or notebook. If using a slideshow, include printed slides inside report cover or notebook.

**D341005 Other Camping Items (SF281)** - Must include what inspired the creation of the item, and its purpose. May include but are not limited to one of the following: nature art, nature haiku poem, spider web sketches or knot display.

### **Level 3 EXPEDITION**

**D341006 Poster (SF281)** - Create a poster display, no larger than 22 inches X 28 inches. Topics may include but not limited to one of the following: Topographic map, backpacking trip plan, camp layout, plan an expedition (can be dreamed or lived), collection of photos from your expedition, trails hiked, cost comparison of rental vs purchase or using GPS/compass.

**D341007 Journal/Binder (SF281)** - Written report of actual, virtual, or imagined expeditions/camping/hiking, OR field journal (notes of actual experiences, sights, sounds, smells, etc.). Explain growth in project, challenges in leading a group, teaching others about wildlife and nature identification and "Leave No Trace."

**D341008 Expedition Safety (SF281)** - Must include an explanation of use of items, why selected/purpose of item, how it meets hiking/camping/expedition needs. May include but are not limited to; travel sized edible plants, creepy crawly guide, tent repair kit, travel first aid kit or weather/water safety.

**D341009 Digital Media (SF281)** - Use digital media to show video/slideshow/presentation of one of the following, but not limited to; building a non-tent shelter (include why needed), packing your backpack/equipment, and getting it onto you, teaching others about environmental issues or a computer video backpacking expedition game. Submit a USB drive or DVD inside a report cover or notebook. If using a slideshow, include printed slides inside report cover or notebook.

**D341010 Other Expedition Items (SF281)** - Must include what inspired the creation of the item, and the purpose of the item. May include, but are not limited to; nature art, nature cinquain poem, backpacking food recipes, hiking/expedition conditioning plan, charcoal etching, dehydrated meal, or snack (at least 1 cup displayed in a re-sealable plastic bag with ingredients, instructions, and nutritional facts included).



# SCIENCE, TECHNOLOGY, ENGINEERING & MATH

## ENTRY/CHECK-IN:

Monday, July 29 from 5:30 - 8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (4-H Building closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

**Nebraska State Fair Premier 4-H Science Award is available in this curriculum area.**

*Guidelines are available at the front of the 4-H static exhibits section.*

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## GENERAL RULES:

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of exhibit may be identified if the entry tag is separated from the exhibit.
2. Review specific size requirements in each division.
3. Fabricated board such as plywood, composition board or particle-type lumber may be used for demonstration displays.
4. Demonstration boards should be sanded and finished to improve their appearance. The finish on a demonstration board will be judged as a woodworking exhibit.
5. Demonstration boards should include an overall title for the display, plus other necessary labeling.
6. Reports should be written using the scientific method whenever possible (Background, the Question or hypothesis, what you plan to do and what you did, method used and observations. Results: what you learned). All reports should be computer generated and enclosed in a clear, plastic cover. The reports should be attached securely to the display.
7. Any entries that are emailed to Saunders-County@unl.edu should also be entered with a flash drive/CD/DVD as backup.

**Special Awards:** Premier 4-H Science Award is available in this area. Please see

<https://4hfairbook.unl.edu/fairbookview.php/contests/51> for more details.

## OTHER S.T.E.M.

### DEPT H / DIV 930 OTHER S.T.E.M

#### (Not Eligible for State Fair)

**H930901 Design Your Own Exhibit in science, engineering, and technology (CF930):** This class is for educational exhibits about science, engineering and technology that do not fit into other categories. Entries must be appropriate for fair display and no larger than 24 inches x 24 inches. All entries must include a title and should be clear about the intended purpose or message – what the exhibit is meant to show. Think about accuracy, creativity, educational value for viewers, and evidence of exhibitor's personal experiences and learning. (Not Eligible for State Fair)

**H930902 Career Interview: (SF239)** Interview someone who is working in a field of interest relating to science, engineering & technology, and research the career in that field. Interviews can either be written, presented in a multimedia format (CD/DVD/Flash drive) or presented as a poster. Written interviews should be in a notebook. Written reports should be 3 to 5 pages, double spaced, 12-point font, and 1 inch margins. Multimedia reports should be between 3 to 5 minutes in length. Posters should be no larger than 28 inches X28 inches. All versions should include a picture of the person interviewed. (Not Eligible for State Fair)  
**\*\*This class can be entered once for each division within Science, Engineering, & Technology.**

## Model Building

### (Not Eligible for State Fair)

**Rules:** Model must be displayed on a flat sturdy base; maximum size is 12 inch x 12 inches. Model should be attached to the base, but do not glue wheels to base.

**H930903 Exhibitor Painted Model from a kit(CF931):** include details of what work was completed by member.

**H930904 Pre-Painted Model from a kit(CF931):** include details of what work was completed by member.

**H930905 Other Model(CF931):** include details of what work was completed by member.

## LEGO & K'NEX Model Building

### (Not Eligible for State Fair)

#### Rules:

1. Any building bricks may be used – not limited to LEGO or K'NEX
2. Model must be displayed on a flat sturdy base such as plywood, foam board, thick cardboard, or other similar material. The LEGO base plates are not sturdy enough.
3. Maximum size is 12 inch x 12 inches.
4. Pieces are NOT to be glued or painted.
5. Include a completed explanation card found here: [go.unl.edu/SaundersStatic](http://go.unl.edu/SaundersStatic)

**H930910 Fictional Character or Thing (CF932) –** No kits. examples include an animal, person, statue etc.

**H930910 Original Design Vehicle (CF932) –** No kits. Include explanation of design details.

**H930911 Original Design Building (CF932) –** No kits. Include explanation of design details.

**H930912 Original Design Scene (CF932) –** No kits – include explanation of design details.

**H930915 Original Item Made (CF932) –** examples include lamp, frame, mirror, clock, wall art, etc. Include explanation of design details.

## ATV EXHIBITS

### DEPT H / DIVISION 866 ATV EXHIBITS

#### (NOT Eligible for State Fair)

**H866901 Demonstration Display(CF223):** Show some part or system of an ATV, worn or broken part, step-by-step repair procedure, etc. Include a brief description. Display on a board 24 inches x 32 inches wide and 1/4 inch thick. A limited number of photographs are acceptable. Actual parts or cut-away parts are recommended.

**H866902 You Be the Teacher(CF47):** Educational notebook, display, collection of materials that relate to project. Share with others what you learned in the project. Include 8 ½ inches x 11 inches page describing exhibit and summary of learning.

**\*\*See Safety Education for additional classes**

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# BICYCLING/CYCLING

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## DEPT H / DIV 865 BICYCLING/CYCLING EXHIBITS

### *(NOT Eligible for State Fair)*

**H865901 Demonstration Display (CF223):** The exhibit is to be prepared on a 24 inches high and 32 inches wide board, not to exceed 1/4 inch thickness. It may include: 1) parts or system of a bicycle, 2) working or broken parts, or, 3) a step-by-step procedure of how some repair or service job is performed. A limited number of photographs are acceptable. Actual parts or cut-away of parts are recommended.

**H865902 Bike Restoration(CF86):** Exhibitors of bicycles need to restore/overhaul/upgrade a bicycle to include current safety features. A report must be included, covered by clear plastic, describing costs, repair cost, and what was done. "Before" and "After" photos should be included.

**H865903 Documented Bike Riding Trip(CF87):** Include a written report using a notebook or scrapbook showing a bike ride or trip you have made using your bike.

**H865905 Bicycle Poster(CF83):** 14 inches x 22 inches, either vertical or horizontal arrangement. They may be in any medium - so long as they are not three- dimensional.

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# ENGINEERING – SMALL ENGINES

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## DEPT H / DIV 890 ENGINEERING

### *(NOT Eligible for State Fair)*

**H890903 Small Engine Beginner (SF222) :** Examples include identification of engine parts, how to start an engine, proper clothing attire for safety, how an engine works, grades of oil, air filters, meaning of safety labels, comparison of engine oil types, transmissions, or safety related to engines. Exhibit could be a poster display, or an actual item.

**H890902 Small Engine Advanced: (SF222)** Display/Item should exemplify one of the lessons learned in the Tune It Up project. Examples include diagnostic tools, fuel systems, ignition systems. If a complete engine is exhibited, it will not be started. However, display needs to report process of building/rebuilding engine and how/where engine will be utilized (i.e., lawn mower, weed eater, snow blower, etc.).

**H890904 Engineering (CF85)–** Design, Build and/or Test something. Examples include Hand to grab item, musical instrument, bridge model, Rubber band car, solar oven, rube Goldberg-type machine, water filtration device, etc. **No bigger than 2 ft x 2 ft x 2 ft in size.** Include in a notebook or on a poster: How it was built, what you learned, what you'd do differently, where you got the idea, and testing process.

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# PHYSICS FUN

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## DEPT H / DIVISION 895 4 WHEELIN' Physics Fun (NOT Eligible for State Fair)

**H895901 Poster(CF83):** Poster to show something learned about physics or safety from the 4 Wheelin' activities.

**H895902 Toolbox(CF88):** Put together using guidelines from the 4 Wheelin' manual. Include a description of the kit's purpose and a list of individual contents.

**H895903 4 Wheelin' Vehicle(CF89):** The vehicle needs to be mounted on a base that is equal to or less than 12 inches x 12 inches and the base should be 3/4 inch thick. Please make your vehicle stable. Please do not attach sideboards or backdrops to the display. A report, protected with a clear, plastic cover, needs to be included with the following information: 1) vehicle specification, 2) results of driving, pulling, and climbing tests, 3) track diagram, 4) pictures.

**H895904 Track or Course Design Drawing(CF90):** Scale drawing to actual track or course design. Indicate the direction the course is used with arrows. Display on a 14 inches x 22 inches poster.

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# ROPE

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### Rules:

1. Each rope exhibit must be mounted on a board that is no larger than 24 inches high x 32 inches wide and no thicker than 1/4 inch. Follow instructions in a manual on how to mount your ropes. Either manila or synthetic rope (Nylon, polyester, or others) may be used. Consider your background and colors to present your rope in the best possible way.

2. When halters are exhibited, the tie rope, plus a required second piece of rope, must show the following items:

- Secured Ends (whipped or using friction tape)
- Splices – end or crown, loop, eye, or side etc.
- End knot – Rose, Matthew Walker, Diamond or other

### Resources:

**Rope and its uses: EC 7-01-79 –** Learn to make knots, hitches, halters and more. Copies can be bought at the office

**Not Just Knots –** Learn to make 14 different simple knots, bends, and hitches. <https://shop4-h.org/products/not-just-knots> and <https://ohio4h.org/knots>

## DEPT H / DIV 770 ROPE

### *(NOT Eligible for State Fair)*

**H770901 Rope Display - Beginner: (F 7-06-79)** At least 3 and not more than 6 knots made of 3/8 inch rope. You can also include hitches and splices, but they are not required. Include appropriate board title and item labels. The end of all ropes must be whipped or fused.

**H770904 Rope Display - Intermediate: (F 7-06-79)** At least 5 and not more than 10 knots made of 3/8 inch rope. You can also include hitches and splices, but they are not required. Include appropriate board title and item labels. The end of all ropes must be whipped or fused.

**H770905 Rope Display - Advanced: (F 7-06-79)** At least 8 and not more than 16 knots made of 3/8 inch rope. Include hitches and splices – at least 2. Include appropriate board title and item labels. The end of all ropes must be whipped or fused.

**H770902 Single Loop or Double Loop Halter: (F 7-05-79)** Sheep and goats use 3/8 inch rope.

**H770903 Single Loop or Double Loop Halter: (F 7-05-79)** Cattle and horses use 5/8 inch or 3/4 inch rope.

**Check out the new Outdoor Adventures for additional knot Classes**

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# STEM ROCKETS

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This category gives 4-H'ers a chance to display the rockets and drones they have created. Through participation in this category 4-H'ers will show judges what they learned about and how they adapted their exhibit throughout this project. Involvement in [STEM Rockets](#) gives participants a first-hand experience in modern technology.

### Rules

- The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
- Rockets must be supported substantially [in order](#) to protect the rocket from breakage. Rockets are to be mounted on a base that has dimensions equal or less than 12 inches x 12 inches and the base should be 3/4 inch thick. No metal bases. If the rocket fins extend beyond the edges of the required base (12 inches x 12 inches), then construct a base that is large enough to protect the fins. The base size is dictated by the size of the rocket fins.
- The rockets must be mounted vertically. Please do not attach sideboards or backdrops to the displays. In addition, a used engine or length of dowel pin is to be glued and/or screwed into the board and extended up into the rocket's engine mount to give added stability.
- Rockets must be equipped as prepared for launching, with wadding and parachute or other recovery system. Rockets entered with live engines, wrong base size or sideboards will be disqualified.
- A report, protected in a clear plastic cover, must include: 1) rocket specification (include original or photo of manufacture packaging stating rocket skill level), 2) a flight record for each launching (weather, distance, flight height), 3) number of launchings, 4) flight pictures 5) Safety (how did you choose your launch site? Document safe launch, preparations, and precautions) 6 objectives learned and 7) conclusions.

- F. The flight record should describe the engine used, what the rocket did in flight and recovery success. Points will not be deducted for launching, flight or recovery failures described. This includes any damage that may be shown on the rocket. Complete factory assembled rockets will not be accepted at the State Fair.
- G. Judging is based upon display appearance, rocket appearance, workmanship, design or capabilities for flight, number of times launched and report. Three launches are required to earn the maximum launch points given on the score sheets. For scoring at the State Fair, only actual launches count, misfires will not count towards one of the required three launches.
- For self-designed rockets only, please include digital recorded copy of one flight. In the documentation, please include a description of stability testing before the rocket was flown.
  - The skill level of a project is not determined by number of years in project. Skill level is determined by the level listed on the manufacturing packaging.
  - 4-H Rocket project levels are not intended to correspond to National Association of Rocketry model rocket difficulty ratings or levels.
- H. **High power rockets (HPR) are similar to model rocketry with differences that include the propulsion power and weight increase of the model. They use motors in ranges over "G" power and/or weigh more than laws and regulations allow for unrestricted model rockets. These rockets are NOT appropriate for 4-H projects and will be disqualified.**
- Posters can be any size up to 28 inches x 22 inches when ready for display. Example: tri fold poster boards are not 28 inches x 22 inches when fully open for display.

**Special Awards:** Premier 4-H Science Award is available in this area. Please see <https://4hfairbook.unl.edu/fairbookview.php/contests/51> for more details.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4haerospace>.

**Resources** Fly kites and launch rockets; Explore space; Experience disorientation; Learn to fly an airplane; Make a shuttle on a string; Control flight directions; Create an altitude tracker; Evaluate navigation systems; Explore pilot certification requirements.  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/120](https://4hcurriculum.unl.edu/index.php/main/program_project/120)

## DEPT H / DIV 850 AEROSPACE

- H850910 Rocket – Hand Painted: (SF92):** Any skill level rocket with plastic fins and plastic body tubes painted by hand or air brush. **Not eligible for State Fair.**
- H850001 Rocket – Hand Painted: (SF92):** Any skill level rocket with wooden fins and cardboard body tubes painted by hand or air brush.
- H850002 Aerospace Display: (SF93)** Poster or display board that displays or exemplifies one of the principles learned in the Lift Off project. Examples include display of rocket parts and purpose, explaining the parts of a NASA rocket or shuttle, interview of someone in the aerospace field or kite terminology. Display can be any size up to 28 inches x 22 inches.
- H850003 Rocket: (SF92)** Any Skill Level Rocket with wooden fins and cardboard body tubes. Painted using commercial application example commercial spray paint.
- H850950 Kite –** Must be homemade, no purchased kits. **Not eligible for State Fair.**
- H850960 Model Airplane or Glider. Not eligible for State Fair.**

## SELF-DESIGNED ROCKET

- H850914 Rocket – Self-Designed: (SF92)** Any self-designed rocket with plastic fins and plastic body tubes. **Not eligible for State Fair.**
- H850004 Rocket – Self-Designed: (SF92)** Any self-designed rocket with wooden fins and cardboard body tubes.

## DRONES

- H850005 Drone Poster: (SF93)** Exhibit must be designed to educate yourself and others on one or more of the following topics: drone technologies, uses of drones, the different types of drones, types of training needed to operate drones, and the laws and regulations users must follow. Posters can be any size up to 28 inches x 22 inches.

**H850006 Drone Video: (SF93)** Exhibit must demonstrate how the drone interacts with the outside world. Examples include field scouting, surveying damage from natural disasters, drones used in commercial applications and settings, drones used for structural engineering. Video should not exceed 5 minutes. Videos should be uploaded to a video streaming application and exhibitors **MUST** provide a hard copy QR code for viewing. Exhibitors **should** test their codes or links on several devices to check for appropriate permissions **for public viewing**. For State Fair, videos should be submitted to <https://go.unl.edu/20243nesfset> by August 10, 2024, or be uploaded to a video streaming application and exhibitors **MUST** provide a hard copy QR code for viewing.

# STEM ENERGY

This category provides 4-H'ers a way to present their ideas about renewable energy resources. Through participation in this category 4-H'ers will learn more about physics, friction, energy, and elasticity.

### Rules:

- The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
- Reports should be written using the scientific method whenever possible (Background, the Question or hypothesis, what you plan to do and what you did, Method used and observations, Results: what you learned.) All reports should be computer generated and enclosed in a clear plastic cover. The reports should be attached securely to the display.
- Posters can be any size up to 28 inches x 22 inches when ready for display. Example: tri fold poster boards are not 28 inches x 22 inches when fully open for display.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hphysics-powerofwind>.

### Renewable Energy Resources:

- United States Department of Energy: <https://www.energy.gov/clean-energy>
- U.S. Energy Information Administration: <https://www.eia.gov/energyexplained/renewable-sources/>
- Natural Resources Defense Council: <https://www.nrdc.org/stories/renewable-energy-clean-facts>

**Resources:** Learn basic principles of physics, such as friction, energy, elasticity; Do experiments with a radio-controlled pickup; Learn about wind and its uses; Design, create, build, and test a wind-powered device; Explore wind as a potential energy source in the community  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/133](https://4hcurriculum.unl.edu/index.php/main/program_project/133)

## DEPT H / DIV 900 SET Energy

- H900001 Create and Compare Energy Resources Poster (SF307)** Poster should explore 2 alternative/renewable energy resources. Compare and contrast the 2 resources including two of the following information: amount of energy created, costs of production, usability of the energy, pros/cons of environmental impacts, etc. Posters can be any size up to 28 inches by 22 inches.
- H900002 Experiment Notebook (SF305)** Notebook will explore the scientific method involving alternative/renewable energy sources. Information required. 1.) Hypothesis 2.) Research 3.) Experiment 4.) Measure 5.) Report or Redefine Hypothesis.
- H900003 Solar as Energy Display/Poster (SF308)** Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' tall or 2' X 2'. Include a notebook of why the item was designed and how it harnesses the power of the sun. Examples include solar ovens, solar panels, etc.
- H900004 Water as Energy Display/Poster(SF308)** Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' tall or 2' X 2'. Include a notebook of why the item was designed and how it harnesses the power of water.
- H900005 Wind as Energy Display/Poster (SF308)** Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' tall or 2' X 2'. Include a notebook of why the item was designed and how it harnesses the power of wind.



**H900006 Other Nebraska Alternative Energy (SF306)** Notebook should explore Nebraskan alternative energy source besides wind, water, and solar power. Include information on type of power chosen, infrastructure for distribution, what resources are needed to create this alternative resource, cost of production, and potential uses of bio-products. Examples include geothermal, biomass, ethanol, bio-diesel, methane reactors, etc.

## STEM COMPUTER

This category gives 4-H'ers a chance to display their knowledge of computers. Through participation in this category 4-H'ers will develop presentations that show judges their knowledge of the different aspects of computer science. Involvement in STEM Computers gives participants a first-hand experience of modern technology.

### Rules:

All Computer Projects containing E-mail addresses need to black out personal E-mail addresses for the protection of each exhibitor.

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. Refer to General S.E.T. Rules
3. Please refer to the General Rules for the policy regarding firearms, items with a blade, and other related items.
4. Please refer to the General Rules for the policy regarding use of copywritten images.
5. **Team Entries:** To qualify for entry at the Nebraska State Fair team materials entered in **H860008** - Maker Space/Digital Fabrication must clearly be the work of a team instead of an individual and must have at least 50% of all team members enrolled in 4-H. Additionally, all enrolled 4-H members on the team should complete and attach an entry tag to the materials. A supplemental page documenting the individual contributions to the project should be included. The entry will be judged as a team, with all team members receiving the same ribbon placing.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hcomputers>.

**Resources:** Learn about hardware and software; Discuss Internet safety; Create and save data; Use Internet search engines; Take apart a computer; Participate in a chat room; Create a newspaper or magazine; Build your own computer system; Design a Web site; Develop a multimedia presentation; Use spreadsheets.

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/123](https://4hcurriculum.unl.edu/index.php/main/program_project/123)

## DEPT H / DIV 860 COMPUTERS

### COMPUTER MYSTERIES – UNIT 1

#### *(NOT Eligible for State Fair)*

**H860918 4-H Promotional Flyer** – Create a flyer promoting 4-H.

Exhibit should be an 8 ½ X 11 inch page using a commercially available graphics software package. Flyer can be color or black & white. Flyers can be a whole page or a folded flyer.

**H860919 Computer Art Poster** – Create a poster to advertise or promote something – no theme required. Poster can be color or black & white. Exhibit should be at least an 8 ½ X 11 inch page using commercially available graphics software.

**H860920 Computer Designed Greeting Card** – create **three** greeting cards each representing a different design such as a birthday, wedding, anniversary, sympathy get well or other. Cards should be created on an 8 ½ X 11 inch page using commercially available graphics program. The cards should vary in folds and design. Include details about software used. Prefabricated cards from a card program are not allowed – must be exhibitor's own work. Display cards in a binder.

### COMPUTER MYSTERIES – UNIT 2

**H860001 Computer Application Notebook: (SF277)** 4-H exhibitor should use computer application to create a graphic notebook utilizing computer technology. 4-H'er may create any of the following:

- greeting card (5 different cards created such as a birthday, wedding, anniversary, sympathy get well or other)
- a business card (3 cards for 3 different individuals and businesses)
- menu (minimum of 2 pages including short description of foods and pricing)
- book layout (I-book)
- promotional flyer (3 flyers promoting 3 different events)
- newsletter (minimum 2 pages)
- other: examples such as precision farming or family business logo etc.

This exhibit consists of a notebook (8.5 x 11 inches) which should include:

- A detailed report describing:
  - the task to be completed,
  - the computer application software required to complete the task
  - specific features of the computer application software necessary for completing the task
- Print out of your project. Project may be in color or black and white.

**H860002 Produce a Computer Slideshow Presentation: (SF276)**

Using presentation software a 4-H Exhibitor designs a multimedia computer presentation on one topic related to youth. A notebook with a printout of all the slides should be submitted. Slideshow should include a minimum of 10 slides and not more than 25. Incorporate appropriate slide layouts, graphics, animations, and audio (music or voice and transition sounds do not count). Each slide should include notes for a presentation. All slideshows must be uploaded. State fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Or entries can be uploaded to a cloud sharing service and exhibitors **MUST** provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

### COMPUTER MYSTERIES – UNIT 3

**H860003 Produce an Audio/Video Computer Presentation: (SF276)**

Using presentation software a 4-H exhibitor designs a multimedia computer presentation on one topic related to youth, including audio and/or video elements. A notebook with a printout of all the slides should be submitted. The presentation should be at least 2 minutes in length and no more than 5 minutes in length, appropriate graphics, sound and either a video clip, animation, or voice over and/or original video clip. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Or entries can be uploaded to a cloud streaming service and video streaming application and exhibitors **MUST** provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**H860004 How to STEM (Science, Technology, Engineering and Math) Presentation: (SF276)** Youth design a fully automated 2 to 5 minute 4-H "how to" video. Submissions should incorporate a picture or video of the 4-H'er, as well as their name (first name only), age (as of January 1 of the current year), years in 4-H, and their personal interests or hobbies. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors **MUST** provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.



**H860005 Virtual Platform Presentation - (SF276)** - Youth design a fully automated education presentation using any multimedia platform such as Tik Tok, YouTube, Canva, Canvas, etc. Submissions may include a notebook, poster, etc. explaining the process, /experience, and/or /presentation. All submissions must include a link to the virtual presentation. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**H860006 Create a Web Site/Blog or App - (SF275)** - Design a simple website, blog, or app for providing information about a topic related to youth. Include an explanation of why the entry was created. Any current website, blog, or app development platform is accepted such as Google Sites, iBuildApp, Wix, etc. If the website, blog, or app isn't live, include all files on a flash drive in a plastic case. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th. Entries can be uploaded to a cloud sharing service. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**H860007 3D Printing (SF1050):** 3D printing uses plastic or other materials to build a three-dimensional (3D) object from a digital design (including 3D Pen Creation). Youth may use original designs or someone else's they have redesigned in a unique way. Exhibits will be judged based on the motivation and/or problem identified. For example, 3D objects printed as part of the design process for robot or other engineering project. Must include design notebook that addresses the following questions:

1. What was the motivation for your design or the problem you were solving with your design? i.e., is your item a functional or decorative piece?
2. Please include a picture of original design, citation of designer/website OR if design is completely original (you created it using CAD software), then state that it's original. If item was not completely original, indicate what you did to the original design to modify it to better meet the design problem stated in #1 above. Its design was modified multiple times, please indicate what change was made with each modification, and what prompted the need for the change. i.e., I printed it and the design was too fragile, so I resliced the print to make thicker external walls, or to have a denser infill.
3. Define your process for designing/printing. What software and/or hardware was used (indicate type of 3D printer or if item was created with 3D pen)?
4. What materials were selected for your project?
5. If your final design has any moving parts, define how you determined appropriate allowance in your design.
6. Identify any changes that you would make to improve your design.

**H860008 Maker Space/Digital Fabrication: (SF1051)** This project is a computer-generated project created using a laser cutter, vinyl cutter, heat press or CNC router. Vector or 3D based software such as CorelDraw or Fusion 360 would be an example of an appropriate software used to create your finished project. Project should include a notebook with the following:

- a) What motivated you to create this project?
- b) Software and equipment used
- c) Directions on how to create the project
- d) Prototype of plans
- e) Cost of creating project
- f) Iterations or modifications made to original plans
- g) Changes you would make if you remade the project

**Team Entry Option:** To qualify for entry at the Nebraska State Fair team materials entered in H860008 – Maker Space/Digital Fabrication must clearly be the work of a team instead of an individual and must have at least 50% of all team members enrolled in 4-H. Additionally, all enrolled 4-H members on the team should complete and attach an entry tag to the materials. A supplemental page documenting the individual contributions to the project should be included. The entry will be judged as a team, with all team members receiving the same ribbon placing.

# STEM ELECTRICITY

In this category 4-H'ers can create informational exhibits about the different aspects of electricity. Through involvement in this category 4-H'ers will be better educated about electricity and be able to present their knowledge to others.

## Rules:

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. Several classes require a display board which should be a height of 24 inches and not to exceed 1/4-inch thickness. A height of 24 7/8 inches is acceptable to allow for the saw kerf (width) if two 24 inch boards are cut from one end of a 4' x 8' sheet of plywood. Nothing should be mounted within 3/4 inch of the top or bottom of the board. (Example: Woodworking & Electricity.)
  - Fabricated board such as plywood, composition board, or particle- type lumber may be used for demonstration displays.
  - Demonstration boards should be sanded and finished to improve their appearance. The finish on a demonstration board will be judged as a woodworking exhibit.
  - Demonstration boards should include an overall title for the display, plus other necessary labeling.
  - **For Non-State Fair classes** - Display board should be no larger than 12 inches X 12 inches. A sturdy piece of cardboard can be used instead of a board.
3. Refer to general S.E.T. rules.

**Scoresheets**, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4helectricity>

**Resources:** Explore electrical insulation; Learn about the effects of magnetism; Build and electromagnet and electric motor; Decode circuit diagrams; Build circuits and test voltages; Build a rocket launcher and a burglar alarm; Measure electrical usage; Replace electrical switches; Evaluate light bulbs and test for electrical power; Explore LED's and SCR's, transistors, and the construction of an SCR intruder alarm; Learn the basics of solid-state electronics; Build a blinking flasher and an amplifier; Explore LED's and SCR's  
URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/126](https://4hcurriculum.unl.edu/index.php/main/program_project/126)

## DEPT H / DIV 870 ELECTRIC EXCITEMENT UNIT 1 MAGIC OF ELECTRICITY (NOT Eligible for State Fair)

**H870901 Bright Lights-** Create your own flashlight using items found around your house. Flashlights should be made from items that could be recycled or reused. No kits.

**H870902 Control the Flow- Make a switch.** Using the following items: D cell battery, battery holder, insulated wire, 2 or 2.5 volt light bulb, bulb holder, paper clip, cardboard, and two brass paper fasteners to create a circuit that you can open and close.

**H870003 Conducting Things-** Make a circuit with a switch and a light bulb that can be used to test different household items for their ability to act as an insulator or conductor. Find five items that are conductors and five items that are insulators. Create a table that illustrates the results.

**H870904 There's a Fork in the Road- Construct one parallel and one series circuit:** D cell battery, battery holder, insulated wire, bulb holder and a 2 or 2.5 volt light bulb.

**H870005 Electrical Display/Item/Poster (SF226):** May only be battery-powered projects using battery components and wiring. Exhibit a momentary switch, simple switch, basic circuit, electromagnet, galvanometer, OR an electric motor. All projects must include a report explaining how the project was constructed and the principles demonstrated. See Electric Excitement 1 for ideas.

**H870906 Paper Circuit Greeting Card (CF226):** Create a greeting card that utilizes paper circuits to light up or play music. Include details about how you created the card and information about how the card works. See page 26 in Wear Tec Curriculum Book 1.

## ELECTRIC EXCITEMENT UNIT 2 INVESTIGATING ELECTRICITY

### (NOT Eligible for State Fair)

**H870910 Case of the Switching Circuit-** Use the following items to build a three way switch: two D cell batteries, two battery holders, light bulb, bulb holder, a 3 inch x6 inch piece of cardboard, six brass paper fasteners and approximately two feet of 24 gauge insulated wire. Write a short essay or poster that illustrates how a three way switch functions.

**H870911 Quiz Board or Steady Hand Tester-** Follow directions in manual.

**H870912 Rocket Launcher-** Construct a rocket launcher with the following materials: a plastic pencil box that is at least 4 inch x 8 inch, single pole switch, single throw switch, normally-open push button switch, 40 feet of 18 or 22 gauge standard wire, 4 alligator clips, 2-by-6 board 6 inches long, 1/8 inch diameter metal rod, rosin core solder, soldering iron or gun, wire stripper, small crescent wrench, pliers, small Phillips and straight blade screwdrivers, drill, 1/8 inch and 1/4 inch drill bits, rocket engine igniters, additional drill bits matched to holes for two switches. You must successfully build a rocket launcher and light two rocket igniters with your launcher. You do NOT have to actually fire a rocket off the launcher. Create a poster using photographs to show the "step by step process".

**H870913 Stop the Crime-** Build an alarm using the following materials: On-off push button switch, mercury switch, buzzer-vibrating or piezoelectric, 9-volt battery, 9-volt battery holder, 4 inch x 4 inch x 1/8 inch Plexiglas board to mount circuit on, rosin core solder, soldering gun/iron, two feet of 22 gauge wire, wire strippers, hot glue sticks, hot glue gun and a plastic box with a lid to mount your alarm circuit on. Create a poster using photographs to show the "step by step process"

## ELECTRIC EXCITEMENT 3 WIRED FOR POWER (Eligible for State Fair)

**H870001 Electrical Tool/Supply Kit: (SF224)** Create an electrical supply kit to be used for basic electrical repair around the house. Include a brief description of each item and its use. Container should be appropriate to hold items.

**H870002 Lighting Comparison: (SF225)** Display studying the efficiency of various lighting (incandescent, fluorescent, halogen, Light Emitting Diodes, etc.). Exhibit could be a poster display, or an actual item.

**H870003 Electrical Display/Item: (SF226)** Show an application of one of the concepts learned in the Wired for Power project. Examples include re-wiring or building a lamp, re-wiring or making a heavy-duty extension cord or developing an electrical diagram of a house. Exhibit could be a poster display, or an actual item.

**H870004 Poster: (SF227)** Poster should exemplify one of the lessons learned in the Wired for Power Project. Posters can be any size up to 28 inches x 22 inches.

## ELECTRIC EXCITEMENT 4 ENTERING ELECTRONICS

### (Eligible for State Fair)

**H870005 Electrical/Electronic Part Identification: (SF228)** Display different parts used for electrical/electronic works. Exhibit should show the part (either picture or actual item) and give a brief description, including symbol of each part and its function. Display should include a minimum of 10 different parts.

**H870006 Electronic Display (SF229)** Show an application of one of the concepts learned in the Entering Electronics project. Examples include components of an electronic device (refer to p. 35 of the Entering Electronics manual).

**H870007 Electronic Project (SF230)** Exhibit an electronic item designed by the 4-H'er or from a manufactured kit that shows the electronic expertise of the 4-H'er. Examples include: a radio, a computer, or a voltmeter.

**H870008 Poster (SF231)** Poster should exemplify one of the lessons learned in the Entering Electronics Project. Posters can be any size up to 28 inches x 22 inches.

# STEM ROBOTICS

This category involves many different aspects of Robotics. Participants will learn more about how robots are designed and developed as well as the mechanical and electronic elements of robots. Involvements in STEM Robotics gives participants a first-hand experience in modern technology.

### Rules:

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so the owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. Reports should be written using the scientific method whenever possible (Background, the Question or hypothesis, what you plan to do and what you did, Method used and observations, Results: what you learned). All reports should be computer generated and enclosed in a clear plastic cover. The reports should be attached securely to the display.
3. Posters can be any size up to 28 inches by 22 inches when ready for display. Example: tri fold poster boards are not 28 inches by 22 inches when fully open for display.
4. Team Entries: To qualify for entry at the Nebraska State Fair team materials entered in robotics classes that are clearly the work of a team instead of an individual must have at least 50% of all team members enrolled in 4-H. Additionally, all enrolled 4-H members on the team should complete and attach an entry tag to the materials. A supplemental page documenting the individual contributions to the project should be included. The entry will be judged as a team, with all team members receiving the same ribbon placing.
5. Creating a video of your robot in action would be helpful for the judges but is not mandatory. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hrobotics>.

**Resources:** Discover the design and functions of robotic arms; Build a robotic arm that moves; Explore robot movement, power transfer, and locomotion; Design and build machines the roll, slide, draw or move underwater; Make the connection between the mechanical and electronic elements of robots; Explore sensors, write programs, build circuits and design your own robot; Use commercial robotics kits to explore the world of robotics; Learn to program your robot using sensors, loops and conditional statements.

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/136](https://4hcurriculum.unl.edu/index.php/main/program_project/136)

## DEPT H / DIV 861 ROBOTICS

**H861001 Robotics Poster: (SF236)** Create a poster (28 inches x 22 inches) communicating a robotics theme such as "Robot or Not", "Pseudocode", "Real World Robots", "Careers in Robots" or "Autonomous Robotics", "Precision Agriculture" or a robotic topic of interest to the 4-H'er.

**H861002 Robotics Notebook: (SF237)** Explore a robotics topic in-depth and present your findings in a notebook. Documentation should include any designs, research, notes, pseudocode, data tables or other evidence of the 4-H'er's learning experience. The notebook should contain at least three pages. Topics could include a programming challenge, programming skill, calibration, sensor exploration, or any of the topics suggested in Class 1.

**H861004 Robotics/Career Interview: (SF239)** Interview someone who is working in the field of robotics and research the career in robotics. Interviews can either be written or in a multimedia format. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing. Written interviews should be in a notebook. Written reports should be 3 to 5 pages, double spaced, 12-point font, and 1 inch margins. Multimedia reports should be between 3 to 5 minutes in length.

**H861005 Robotics Sensor Notebook: (SF241)** Write pseudocode which includes at least **three** sensor activities. Include the code written and explain the code function. Codes can be submitted as a multimedia format uploaded to a cloud sharing service. Include a QR code with your project to allow judging access. Multimedia presentations should be 3 to 5 minutes in length. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**H861007 Kit Labeled Robot (cannot be free programmed) and Notebook - (SF243)** This class is intended for explorations of robotic components such as arms or vehicles OR educational kits marketed as robots that do not have the ability to be programmed to "sense, plan and act." The exhibit should include a notebook with the robot the youth has constructed. Included in the notebook should be (1) a description of what the robot does, (2) pictures of programs the robot can perform, (3) why they chose to build this particular form, and (4) how they problem solved any issues they might have had during building and programming. A picture story of assembly is recommended.

**H861008 3D Printed Robotics Parts (SF1050)** - This class is intended for youth to create parts through 3D printing, that help create their robot or aid the robot in completing a coded function. Project should include a notebook describing the process used to create the project, describe the success of your designed piece (did it work), intended use of the product and the modifications made to the item.

**F500037 Robotics Video (SF238)**– This class should be displayed in a notebook. The notebook should include a video clip on a CD/DVD/flash drive or with a QR code that demonstrates the robot performing the programmed function. Include your pseudo code and screenshots of the actual code with a written description of the icon/command functions. State Fair qualified entries should be submitted to <https://go.unl.edu/2024nesfset> by August 10th, 2024. County Fair entries should be emailed to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by Monday of fair week. Exhibitors MUST provide a hard copy QR code for viewing. Exhibitors should test their codes or links on several devices to check for appropriate permissions for public viewing.

**F500038 Build a Robot: (SF243)** Include a robot and notebook including the pseudocodes for at least one program you have written for the robot, the robot's purpose, and any challenges or changes you would make in the robot design or programming. We recommend that you submit the project under class H861003 - Robotics Video. Junk Drawer Robotics do not qualify. For State Fair, if robot is more than 15 inches wide and 20 inches tall, they may not be displayed in locked cases.

## ROBOTICS SHOWCASE AT STATE FAIR

The 4-H Robotics Showcase is an opportunity for youth to showcase their Science, Technology, Engineering, and Math (STEM) talents by presenting their robot design and programming skills to judges and members of the public. All youth participants have the ability to interact with the judges and run the programs on the robot exhibit.

### Rules

- Participants may enter as an individual or as a team. A team consists of 2-4 individuals.
- Participants must be enrolled in a SET robotics project during the current 4-H year.
- Participants should arrive at least 15 minutes prior to your assigned time to set up.
- Participants must wear the State Fair 4-H t-shirt provided to them during the contest.

**Advance Entry:** Members must register in ShoWorks by August 10th

### Participant Eligibility:

- Contestants must be 8 years of age by January 1 of the current year.
- Contestant must be 4-H members at the time of the contest.
- Contestant eligibility will be verified by county Extension staff.

Participants are required to pay a non-refundable fee of \$5/person. Participants will be notified of the location of the contest prior to State Fair.

General rules from the 4-H section of the Nebraska State Fair apply.

# STEM GEOSPATIAL

STEM Geospatial is a diverse category that includes a variety of exhibits 4-H'ers can get involved in. Through participation in this category 4-H'ers will gain more knowledge about Nebraska's rich history and diverse geography. Take close note of the rules to ensure your exhibit qualifies.

### Rules

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. Reports should be written using the scientific method whenever possible (Background, the Question or hypothesis, what you plan to do and what you did, Method used and observations, Results: what you learned. All reports should be computer generated and enclosed in a clear plastic cover. The reports should be attached securely to the display.
3. Please refer to the General Rules for the policy regarding firearms, items with a blade, and other related items.
4. Please refer to the General Rules for the policy regarding use of copywritten images.

**Scoresheets**, forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hgeo>.

**Resources:** Learn about Geography; Learn about Geographic Information Systems (GIS); Learn about Global Positioning Systems (GPS)

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/132](https://4hcurriculum.unl.edu/index.php/main/program_project/132)

## DEPT H / DIV 880 GEOSPATIAL

**H880001 Poster: (SF299)** Create a poster (not to exceed 14 inches x 22 inches) communicating a GPS theme such as How GPS or GIS works, Careers that use GPS or GIS, How to use GPS, What is GIS, GPS or GIS in Agriculture, Precision Agriculture, or a geospatial topic of interest.

**H880002 4-H Favorite Places or Historical Site Poster: (SF272)** The 4-H exhibitor identifies a favorite place or historical site (including grave sites) in Nebraska. Exhibit should include latitude and longitude, digital picture, and local area map. Poster size should not exceed 14 inches x 22 inches.

**H880003 GPS Notebook: (SF300)** Keep a log of at least 5 places visited using a GPS enabled device. At least one site should be from a community other than where you live. For each site, record the latitude, longitude, and elevation. Also include a description of the site, a paragraph explaining what was interesting about the site or finding it. Photos of each site and/or cache are optional but encouraged.

**H880004 Geocache: (SF301)** Assemble a themed geocache. Each geocache should be a watertight container. It should include a logbook and pencil for finders to log their visits and may include small trinket, geocoins, etc. for the finders to trade. Documentation should include a title, teaser description and the geographic coordinates of intended placement.

**Register the site at [geocaching.com](https://www.geocaching.com), include a print-out of its registry.** The entry may include a photograph of the cache in its intended hiding place.

**H880005 Agriculture Precision Mapping: (SF302)** 4-H'ers will assemble a notebook that will include a minimum of 2 digital copies of various data layers that can be used in precision agriculture to identify spatial patterns and/or correlations (printed copies of websites were applications can be purchased is acceptable). A report of how the analysis of the various data will be used to make a management decision.

**H880006 4-H History Map/ Preserve 4-H History: (SF303)** Nominate a Point of Interest for the 4-H History Map Project. Include copy of submitted form in folder or notebook. To nominate a site for the 4-H history map please go to <http://arcg.is/1bvGogV>. For more information about 4-H history go to [http://www.4-historypreservation.com/History\\_Map](http://www.4-historypreservation.com/History_Map). For a step-by-step video on nominating a point, please go to this link: <http://tinyurl.com/nominate4h> Write a brief description of historical significance of 4-H place or person (minimum of one paragraph).



**H880007 GIS Thematic Map: (SF302)** Using any GIS software, create a thematic map. Thematic maps can utilize any subject of interest to the 4-H'er. Example map would be Amelia Earhart's or Sir Francis Drake's voyage population density maps, water usage maps or 4-H project in Nebraska. Create GIS Map using data from books and/or internet. Use reliable data (U.S. Census or U.S. Census Bureau, etc.). Map any size from 8.5 x 11 inch up to 36 inches x 24 inches, should include Title, Base Map, Neat Line, North Arrow, and Legend. Identify the source of your information on the back of map.

**H880008 Virtual Geocache (SF300)** - Keep a log of at least 5 places visited using a virtual geocache platform. At least one site should be from a community other than where you live. For each site, record the latitude, longitude, and elevation. Also include a description of the site, a paragraph explaining what was interesting about the site or finding it. Photos of each site and/or cache are optional, but highly encouraged.

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## STEM WOODWORKING

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In this category 4-H'ers have the opportunity to create exhibits about varying levels of woodworking. In addition, participants can also create informational exhibits about their woodworking projects. Through involvement in STEM Woodworking 4-H'ers will be better educated about the topic and better their woodworking skills.

### Rules:

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. **Requirements:** All articles exhibited must include a plan (with drawings or sketch or blueprints) stating dimensions and other critical instructions a builder would need to know how to build the project. Plans may include narrative instructions in addition to the dimension drawings and include any alternations to the original plan. Part of the score depends on how well the project matches the plans. If the plans are modified, the changes from the original need to be noted on the plans. All plans used for making the article must be securely attached and protected by a clear plastic cover. All projects must have appropriate finish.
3. If the project (i.e., picnic tables, wishing wells, swings, chairs, bridges, doghouses, etc.) is designed to be used outside, it may be displayed outside.
4. **All outside projects MUST have entry tag and supporting information placed in a protective bag to prevent damage from weather events such as rain and be ATTACHED to projects with string, zip ties, etc.**

**Scoresheets,** forms, contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hwoodworking>.

**Resources:** Develop skills such as measuring, squaring and cutting a board, driving nails, and using clamps and screws; Build a picture frame, a letter holder, a box, or an airplane; Measure, cut, sand, drill, and use advanced hand and power tools; Apply paint and use bolts and staples; Build a sawhorse, birdhouse, tool box, or a stool; Practice measuring angles, cutting dado and rabbit joints; Use a circular saw, a table saw, and a radial arm saw; Sand and stain wood.  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/144](https://4hcurriculum.unl.edu/index.php/main/program_project/144)

## DEPT H / DIV 911

### WOODWORKING - Level 1 Measuring Up

(Not Eligible for State Fair)

**H911909 Woodworking Article made with hand tools #1: (SF91)**

Item made using skills learned in the Measuring Up project guide. Examples include flower box, letter or napkin holder, picture frame or other skill level appropriate items.

**H911910 Woodworking Article made with hand tools #2: (SF91)**

Item made using skills learned in the Measuring Up project guide. Examples include flower box, letter or napkin holder, picture frame or other skill level appropriate items.

**H911911 Woodworking Tools Poster (CFxx)** Create a poster showing at least 6 tools used in woodworking. Label each tool with its name and general use.

### WOODWORKING - Level 2 Making the Cut

(Not Eligible for State Fair)

**H911915 Woodworking Article #1 (SF91)** Item made using skills learned in the Making the Cut project guide (selecting wood, screws, angles – measuring and cutting, power sanding, liquid finishes). Examples include birdhouse, foot stool, toolbox, sawhorse or other skill level appropriate items.

**H911912 Woodworking Article #2: (SF91)** - Item made using skills learned in the Making the Cut project guide (selecting wood, screws, angles – measuring and cutting, power sanding, liquid finishes). Examples include birdhouse, foot stool, toolbox, sawhorse, or other skill level appropriate items.

**H911913 Woodworking Article #3: (SF91)** - Item made using skills learned in the Making the Cut project guide (selecting wood, screws, angles – measuring and cutting, power sanding, liquid finishes). Examples include birdhouse, foot stool, toolbox, sawhorse or other skill level appropriate items.

### WOODWORKING - Level 3 Nailing it Together

**H911001 Woodworking Article: (SF91)** Item should be made using either joints, hinges, dowels, or a dado joining made using skills learned in the Nailing It Together manual. Item is required to be appropriately finished. Examples include bookcase, coffee table or end table.

**H911003 Recycled Woodworking Display: (SF95)** Article made from recycled, reclaimed, or composite wood. Article must be appropriately finished and/or sealed and utilize one or more woodworking techniques from page 2 of the Unit 3 manual. Exhibit must include the woodworking plan and a minimum one-page report of how the engineering design process was used to develop the woodworking plan. Engineering Design Process.

- 1) State the problem (Why did you need this item?)
- 2) Generate possible solutions (How have others solved the problem? What other alternatives or designs were considered?)
- 3) Select a solution (How does your solution compare on the basis of cost, availability, and functionality?)
- 4) Build the item (What was your woodworking plan, and what processes did you use to build your item?)
- 5) Reason for article finish (What type of finish, how did you finish or why you choose this finish?)
- 6) Evaluate (How does your item solve the original need?)
- 7) Present results (How would you do this better next time?)

**H911004 Composite Wood Project (SF96)** 60% of the project must be wood and 40% made from other materials such as metal, rubber, resin, etc. All plans and plan alternations must be attached to the article. Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish because project may be displayed outside.

**H911005 Outdoor Wood Project made with Treated Wood (SF97)**

Treated wood projects DO NOT have to have a finished coating. All plans and plan alternations must be attached to the article. Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish because project may be displayed outside. Examples include picnic tables, planters, outdoor furniture, etc.

**H911006 Wood Projects created on a Turning Lathe (SFxx)** Article is the object created from spinning wood on a turning lathe. Article must be appropriately finished and/or sealed. Exhibit must include plans detailing design and process of completion, any changes made to the design, details of finishing techniques, and other relevant information about the article. Must include a description of tools used.

### WOODWORKING – Level 4 Finishing Up

**H911007 Woodworking Article: (SF91)** Item made using skills learned in the Finishing it Up project. Examples include dovetailing, making a pen using lathe, overlays, using a router, etc.



**H911008 Recycled Woodworking Display: (SF91)** Article made from recycled, reclaimed, or composite wood. Article must be appropriately finished and/or sealed and utilize one or more woodworking techniques from page 2 of the Unit 4 manual. Exhibit must include the woodworking plan and a minimum one-page report of how the design and engineering process was used to develop the woodworking plan.

- 1) State the problem (Why did you need this item?)
- 2) Generate possible solutions (How have others solved the problem? What other alternatives or designs were considered?)
- 3) Select a solution (How does your solution compare on the basis of cost, availability, and functionality?)
- 4) Reason for article finish (What type of finish, how did you finish or why you choose this finish?)
- 5) Build the item (What was your woodworking plan, and what processes did you use to build your item?)
- 6) Evaluate (How does your item solve the original need?)
- 7) Present results (How would you do this better next time?)

## STEM WELDING

This category helps 4-H'ers learn the basics of welding. In addition, 4-H'ers get the opportunity to present their knowledge on the topic and display what they have made. Involvement in STEM Welding gives participants a first-hand experience in a skill that can be used for a lifetime.

### Rules:

1. The name and county of each exhibitor should appear separately on the back of each board, poster, or article and on the front cover of the notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.
2. All welds exhibited in class 1 or 2 must be mounted on a 12 inches high x 15 inches long display board of thickness not to exceed 3/8 inch. Attach each weld on a wire loop hinge or equivalent, so the judge can look at the bottom side of the weld when necessary. Each weld should be labeled with information stated 1) type of welding process (stick, MIG, TIG, Oxy-Acetylene, etc.) 2) kind of weld, 3) welder setting, 4) electrode/wire/rod size, and 5) electrode/wire/rod ID numbers. **Attach a wire to display board so it can be hung like a picture frame. No picture frame hangers accepted.**
3. Fabricated board such as plywood, composition board, or particle-type lumber may be used for demonstration displays.
4. Demonstration boards should be sanded and finished to improve their appearance. The finish on a demonstration board will be judged as a woodworking exhibit.
5. Reports should be written using the scientific method whenever possible (Background, the Question or hypothesis, what you plan to do and what you did, Method used and observations, Results: what you learned). All reports should be computer generated and enclosed in a clear plastic cover. The reports should be attached securely to the display.
6. **Plans:** If no plans are included with welding art, welding article, welding furniture or composite weld project item will be disqualified.
7. All **outside projects** MUST have entry tag and supporting information placed in a protective bag to prevent damage from weather events such as rain and be ATTACHED to projects with string, zip ties, etc.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hwelding>.

**Resources:** Learn to cut metal with an arc solder; Weld high carbon, spring steel and alloy steels; Weld horizontal, vertical, and overhead positions

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/143](https://4hcurriculum.unl.edu/index.php/main/program_project/143)

## DEPT H / DIV 920 – Arcs and Sparks

### (Eligible for State Fair)

#### CLASS 1: 4-H Welding Project Tips and Suggestions

- 1) All welds should be made with the same electrode/wire/rod size and number.
- 2) Welds should be made only on one side of metal so penetration can be judged.
- 3) Welds should be cleaned with chipping hammer and wire brush. Apply a coat of light oil (penetrating oil) to the metal to prevent rusting. Wipe off Excess oil.
- 4) It is suggested that all welds be of the same size and thickness as metal. These pieces, referred to as coupons, should be 1.5

to 2 inches wide and 3.5 to 4 inches long. A good way to get this size is to buy new cold rolled strap iron and cut to length. The extra width is needed to provide enough metal to absorb the heat from the welding process and prevent the coupons from becoming too hot before the bead is completed. Narrower coupons will become very hot, making an average welder setting too cold at the bead start, just about right in the middle, and too hot at the end. The correct way to weld narrow strips is to make short beads and allow time to cool, however this project requires a full-length bead.

- 5) **Stick welding** - Suggested coupon thickness – ¼ inch if using 1/8 inch rod. Suggest rod—AC and DC straight or reverse polarity—first E-7014, second E-6013
- 6) **MIG welding** - Suggested coupon thickness—1/4 inch if using .035 wire and 1/8 inch if using .023 wire
- 7) **Oxy – Acetylene** - Suggested coupon thickness—1/8 inch Suggested rod – 1/8 inch mild steel rod

#### CLASS 2: 4-H Welding Project Tips and Suggestions

1. It is suggested that all welds be of the same size and thickness of metal. These pieces are referred to as coupons. The welds can be on one coupon that is about 4 inches x 4 inches or on individual coupons that are about 2 inches x 4 inches inch and ¼ inch thick. Suggested rods for this class of position welds for AC and DC straight or reverse polarity is, first E-6013, second E-7014 and E-6010 for DC reverse polarity only.

2. Welds should be cleaned with a chipping hammer and wire brush. Apply a coat of light oil (penetrating oil) to the metal to prevent rusting. Wipe off excess oil.

#### Class 3 & 4 Welding Project Tips and Suggestions:

1. 4-H Welding Project Tips and Suggestions: Class 3 & 4 1. All welds should be cleaned and protected from rust with paint or light oil. Plans are to be complete enough that if they were given to a welding shop, the item could be made without further instructions. Bill of materials should include a cost for all items used including steel, electrodes, paint, wheels, etc.

**H920001 Welding Joints:** A display of one butt, one lap and one fillet weld.

**H920002 Position Welds:** A display showing 3 beads welded in the vertical down, horizontal and overhead positions.

**H920003 Welding Art – (SF283) –** Any art created using tack welds to hold the metal pieces together (examples include horseshoe projects). Type of welder, welder settings, all plans, plan alternations, and a bill for material must be attached to the article. Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish.

**H920004 Welding Article (SF281):** Any shop article where welding is used for construction. 60% of the item must be completed by 4-H'er and notes regarding laser welding or machine welding must be included. **Type of welder, welder settings, all plans, plan alternations, and a bill for material must be attached to the article.** Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish because project may be displayed outside.

**H920005 Welding Furniture (SF282):** Any furniture with 75% welding is used in the construction. 60% of item must be completed by 4-H'er and notes regarding laser welding or machine welding must be included. **Type of welder, welder settings, all plans, plan alternations, and a bill for material must be attached to the article.** Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish because project may be displayed outside.

**H920006 Plasma Cutter/Welder Design (SF279):** Plasma cutters/welders allowed for detailed design(s) to butt cut into metal. 4-H'ers will create a notebook describing the design process to create the "artwork" to butt cut into the metal. In the notebook include:

1. A photo (front and back) of the finished project.
2. Instructions on how the design was created (include software used), this allows for replication of the project.
3. Lessons learned or improvements to the project.
4. Steps to finish the project.

**H920007 Composite Weld Project: (SF280) -** 60% of the project must be welded and 40% made from other materials such as wood, rubber, etc. **Type of welder, welder settings, all plans, plan alternations, and a bill for material must be attached to the article.** Protect plans with a cover. If project is designed to be outside, it is required to have appropriate outdoor finish because project may be displayed outside.

# AGRICULTURAL SCIENCE

## ENTRY/CHECK-IN & INTERVIEW JUDGING SIGN-UP:

Monday, July 29 from 5:30-8:00 p.m.

No exhibits will be accepted after 8:00 p.m. on Monday, July 29

## JUDGING TIME:

Tuesday, July 30 beginning at 9:00 a.m. (closed to public)

## RELEASE

Sunday, August 4 at 9:00 a.m.

## ENTRY LIMIT:

ONE entry/exhibit per class (unless otherwise stated within an individual division)

## PREMIUMS:

Purple \$4 / Blue \$3 / Red \$2 / White \$1

## STATE FAIR ENTRIES:

All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

## FOR ADDITIONAL INFORMATION:

Refer to the GENERAL RULES AND REGULATIONS at the front of the 4-H section.

## ANIMAL EDUCATION

### Rules:

1. The entry for Educational Poster (Class 991) shall be a poster focusing on a current livestock issue, animal industry career, animal care or health, economic impacts of the livestock industry, or specific breed information within the species of dairy, beef, sheep, swine, goat, poultry, rabbit, horse, cat, or dog.
2. Poster should be no larger than 22 inches x 28 inches.
3. Entries for Class 991 *may be* displayed in the livestock barns (project area) to increase the educational experiences of both the 4-H member and the general public, increasing agricultural literacy. If poster is to be displayed in respective livestock barn it is up to the exhibitor to take poster to the correct area after judging has finished.
4. Entries for all classes, except 991 for animals other than dog, cat, or horse, shall be kept in the static building.

## DEPT H / DIV 090 ANIMAL EDUCATION

### ***(Not Eligible for State Fair)***

- H090991 Educational Poster for Animal Entries (SF1000)** – may enter one display per species exhibiting.
- H090992 Animal Treat (CFXXX)** – homemade treat for large or small animal. Include sample of treat, recipe and information about animal receiving item in a notebook or poster.
- H090993 Animal Enrichment Item – Small Animal (CFXXX)** – Homemade item used for animal enrichment. Include details about how the item was made and information about the animal using the item. Can be in the form of a poster with pictures of item or notebook entered with the item.
- H090994 Animal Enrichment Item – Large Animal (CFXXX)** – Homemade item used for animal enrichment. Include details about how the item was made and information about the animal using the item. Can be in the form of a poster with pictures of item or notebook entered with the item. **Please use a poster if item is larger than 2ft x 2ft.**

## AGRICULTURAL MECHANICS (FFA)

### DEPT H / DIVISION 780

### AGRICULTURAL MECHANICS – FFA (CF-FFA)

*(Premiums will be paid to FFA Chapter as a whole)*

#### Rules:

- 1) Any Vocational Agriculture student who resides in Saunders County and is an active member of a FFA Chapter may exhibit at this fair in Department H, provided that he/she met the age and education requirements established for 4-H exhibitors.

### ***(Not Eligible for State Fair)***

**H780901 Large Items:** wagon boxes, feed bunks, trailer chutes, etc.

**H780902 Medium Items:** gates, panels, workbenches, table, etc.

**H780903 Small Items:** sawhorses, stools, chairs, ladders, etc.

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# VETERINARY SCIENCE

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The purpose of the Veterinary Science display is to inform the public regarding a common health problem of animals, a veterinary science principle or public health/zoonotic diseases.

## Rules:

- 1) A Veterinary Science exhibit may consist of a poster, notebook, or a display. The exhibit may represent material from any of the Veterinary Science projects including entry level exhibits from Unit I.
- 2) If photographs are to be part of the exhibit, remember that they will be viewed by the public. Make sure that the photographs are in good taste and will not be offensive to anyone. Graphic photographs of excessive bleeding, trauma or painful procedures are not appropriate. For exhibits related to veterinary surgical procedures, aseptic techniques need to be shown, for example, use of drapes, use of sterile procedures, wearing of gloves, and other appropriate veterinary medical practices.
- 3) First-Aid Kits: Because of public safety concerns and risk of theft of first-aid kit contents (veterinary drugs/equipment) with perceived potential for drug abuse, **animal first aid kits containing any drugs or medications will be immediately disqualified and not displayed.** **First Aid kits wishing to include medication information should instead utilize written descriptions, photographs, drawings, computer generated printouts, or empty packaging of pharmaceuticals.**
- 4) Veterinary Science Posters - This exhibit presents the viewer with a design that is simple and direct, unlike a display that usually presents more information. A poster should not exceed 22 inches x 28 inches and may be either vertical or horizontal
- 5) Veterinary Science Displays - A display may include but is not limited to a 3-dimensional exhibit, a scale model, the actual product (for example: skeleton; teeth; samples of leather, fur, or dried skin damaged by disease or parasites) or a notebook. A display is not a poster. A display may be mounted on poster board not to exceed 22 inches x 28 inches or on 1/4 inch plywood or equivalent that does not exceed 24 inches high or 32 inches wide or in a three-ring binder or another bound notebook format. Appropriate Veterinary Science Topics:
  - a. Maintaining health
  - b. Specific disease information
  - c. Photographic display of normal and abnormal characteristics of animals
  - d. Animal health or safety
  - e. Public health or safety
  - f. Proper animal management to ensure food safety & quality
  - g. Efficient and safe livestock working facilities
  - h. Or a topic of the exhibitors choosing related to veterinary medicine or veterinary science

6) **\*\*Remember, since these are science displays, all references and information need to be properly cited.** Proper sources include but are not limited to: Professional journals and publications, professional AVMA accredited websites, interviews with Veterinarians and excerpts from Veterinary Educational Literature. *Plagiarism will result in disqualification. Please study your topic and present the information to your audience in your own words.*

**Special Awards:** Premier 4-H Science Award is available in this area. Please see <https://4hfairbook.unl.edu/fairbookview.php/contests/51> for more details.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <https://go.unl.edu/ne4hvetscience>.

**Resources:** Understand animals basic needs; Keep health records; Learn about future veterinary science technology; Take an animal's temperature and pulse; Recognize healthy skin and membranes; Clean and disinfect animals quarters; Study bacteria, viruses and parasites; Learn about diseases relationship to nutrition, stress, heredity and poison; Learn basic disease prevention techniques; Study environmental influences on animal health; Learn about maintaining animal health; Explore veterinary medicine as a career

[https://4hcurriculum.unl.edu/index.php/main/program\\_project/20](https://4hcurriculum.unl.edu/index.php/main/program_project/20)

## DEPT H / DIV 840

### VETERINARY SCIENCE

H840001 4-H Veterinary Science Large Animal Poster,  
Notebook or Display (SF119)

H840002 4-H Veterinary Science Small Animal/Pet Poster,  
Notebook or Display (SF119)

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# AGRONOMY

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The purpose of these exhibits is to demonstrate to the public the benefits from the study and application of crop, weed, range and soil sciences to solving problems in management, conservation, sustainability, and environmental protection.

Scoresheets, forms, contest study materials and additional resources can be found at <https://go.unl.edu/ne4hagronomy>.

## Rules:

### 1) Grain or Plant Exhibits - Classes 1-5:

- a. A completed Crop Production Worksheet (available at <https://cropwatch.unl.edu/Youth/Documents/Crop%20Production%20Project%20Worksheet%20Final.pdf>) must accompany grain and plant exhibits or it will automatically be deducted one ribbon placing. The worksheet must include the exhibitors name and address, county, plant hybrid or variety, plant population, whether crop production was irrigated or dryland, and general information including farm cropping history, soil type and weather effects.
- b. The worksheet also must include an economic analysis of the project, listing individual expenses and income, on a per acre basis. Other topics to discuss are the selection of variety or hybrid, impacts of tillage and conservation practices, inputs (fuel, fertilizer, irrigation, labor, pesticides, etc.), any observations made during the growing season and what you learned from your crops project. The worksheet counts as 50% of the total when judged.
- c. Worksheet must be the original work of the individual exhibitor, or it will be deducted one ribbon placing.
- d. Attach the worksheet to the entry in a clear plastic cover such that it can be read without removing it from the cover. In addition to the worksheet, grain and plant exhibits will be judged on condition, appearance (i.e., disease and insect damage, grain fill), uniformity (size, shape, color, maturity), and quality of exhibit. Refer to Scoresheet SF264. Grain exhibits must be one gallon per sample. Grain exhibits harvested in the fall (e.g., corn or soybeans) may be from the previous year's project **and brought in an appropriately sized box/container for display.** **NEW: Place in a clear container so it can be viewed and displayed.**
- e. Plant exhibits, with the exception of ears of corn, must be the result of the current year's project. - Corn - 10 ears or 3 stalks (cut at ground level with no roots or soil and bound together)
- f. Grain Sorghum - 4 stalks (cut at ground level and bound together)
- g. Soybeans - 6 stalks (cut at ground level and bound together)
- h. Small grains (oats, barley, wheat, triticale) - sheaf of heads 2 inches in diameter at top tie with stems about 24 inches long.
- i. Other crops (alfalfa, millet, etc.) - sheaf of stems 3 inches in diameter at top tied with stems cut at ground level or half size small square bale.

### 2) Displays - Classes 6-10:

- a. The purpose of the display is to tell an educational story to those that view the display.
- b. The display is a visual representation (pictures, charts, graphs) no larger than 28 inches wide by 28 inches tall on plywood or poster board.
- c. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side. Explain pictures and graphs clearly and concisely.
- d. Consider creativity and neatness. Refer to Scoresheet SF259 Each display must have a one-page essay (minimum) explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used.
- e. The essay should be in a clear plastic cover with the exhibitor's name outside.
- f. If a display does not have an essay, it will automatically be deducted one ribbon placing.

## DEPT G / DIV 750 FIELD CROPS

**G750001 Corn (SF264)** (includes yellow, white, pop, waxy, or any other type)

**G750002 Soybeans (SF264)**

**G750003 Oats (SF264)**

**G750004 Wheat (SF264)**

**G750005 Any other crop (SF264)** (includes grain sorghum, alfalfa, millets, barley, rye, triticale, amaranth, dry beans, sugar beet, mung bean, canola, forage sorghum, safflower, etc.)

**G750006 Crop Production Display: (SF259)** The purpose of this class is to allow original and creative exhibits that contain educational information about crop production aspects, such as crop scouting, alternative crops, etc.

**G750007 Crop Technology Display: (SF259)** Display information about aspects of technology used in crop production, such as genetic engineering, crop breeding, GPS, yield mapping, computers, etc.

**G750008 Crop End Use Display: (SF259)** Display information about the uses for a crop, such as food, feed, fuel, or other products. This should not be about the process of crop production but focus on an end product(s).

**G750009 Water or Soil Display: (SF259)** Display information about water or soils, such as how soils are being used for crop production, range, conservation, wildlife, or wetland use, or ways to protect or conserve water and soil resources.

**G750010 Career Interview Display: (SF259)** The purpose of this class is to allow youth to investigate a career in agronomy. Youth should interview one person that works with crops about such topics as what parts of their job. Do they enjoy or dislike it, why did they choose that career, what was their education, etc. Include a picture of the person interviewed.

## Special Agronomy Project

Youth experience a crop that is grown, was grown or has the potential to be grown in Nebraska by growing it, researching traits of that crop and determining viability of that crop in the part of the state they live.

- Each year seeds will be mailed to extension offices or ag ed classrooms across the state, as ordered by that location. Offices will distribute to youth on a first come – first serve basis. A different seed will be selected every year.
- Youth will grow seeds in their garden or pots. Written resources materials will be available for youth, in addition to virtual, live, or recorded videos/field trips.
- Youth will be eligible to enter an exhibit at both the county and/or state fair in the agronomy project area.

d. **The crop of the year for 2024 is Sugar Beets.**

**G750011 Special Agronomy Project - Educational Exhibit (SF259)**- Educational exhibit based on what was learned from the project. Present information on a poster **28 inches X 28 inches** either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, and county must be on the back of the poster or report cover. Refer to Scoresheet SF259 Each display must have a one- page essay (minimum) explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used.

**G750012 Special Agronomy Project -Video Presentation - 4-H** exhibitor designs a multimedia presentation related to the crop. This could include narration of the growing process, presenting facts about the crop or any other innovative multimedia practices. The presentation should be at least 2 minutes in length and no more than 5 minutes in length, appropriate graphics, sound and either a video clip, animation, or voice over and/or original video clip. Any of the following file formats will be accepted: mp4, .mov, .ppt, or .avi. **For County Fair, email a link of the video to [saunder-county@unl.edu](mailto:saunder-county@unl.edu) by July 29<sup>th</sup>. For State Fair, email a link of the video to [anygren2@unl.edu](mailto:anygren2@unl.edu) by August 10<sup>th</sup>.**

## G750013 Special Agronomy Project (Freshly Harvested Crop)

Plant exhibits must be the result of the current year's project.

- **Sugar Beets: 3-plants 2 beets, zip-tied or tied with string**
- Supporting documentation (½ to 1-page in length) should include the following:
  - Economic Analysis and/or research that supports feasibility of this crop in Nebraska or how the crop has evolved over time.
  - Other topics to discuss are past/current commercial production of this crop. This includes: the selection of variety or hybrid, impacts of tillage and conservation practices, inputs (fuel, fertilizer, irrigation, labor, pesticides, etc.), any observations made during the growing season about this crop and what you learned from your crops project. This ½ to 1-page summary counts as 50% of the total when judged.

In addition to the summary, grain and plant exhibits will be judged on condition, appearance (i.e., disease and insect damage, grain fill), uniformity (size, shape, color, maturity), and quality of exhibit.

## DEPT G / DIV 751 WEED SCIENCE

### Rules:

At least 15 of the specimens must represent this year's work. For assistance identifying plants, participants can use the Nebraska Department of Agriculture's Weeds of Nebraska and the Great Plains (1994) or Weeds of the Great Plains (2003).

1) Books - Classes 1-2:

- Plants must be mounted on sheets that are no larger than 14 inches wide by 14 inches high. Proper plant mount should include root as well as stem and leaf tissue. Plants should be glued rather than taped and the mounts should be protected with a clear cover.
- Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements. Refer to Scoresheet SF261.
- Each completed mount must have the following information (see example below) in the lower right corner of the mounting sheet:
  - Scientific name (in italic or underlined), with authority,
  - Common name,
  - County of collection,
  - Collection date,
  - Collector's name,
  - Personal collection number, indicating the order that plants were collected in your personal collection,
  - Other information depending on class selected, i.e., noxious, life form.This information should be typed or printed neatly.

2) Displays - Class 3

- The purpose of the display is to tell an educational story to those that view the display. The display is a visual representation (pictures, charts, graphs) no larger than 28 inches by 28 inches on plywood or poster board. The display should be neatly titled.
- Make sure to label display with exhibitor's name, address, and county on back side. Explain pictures and graphs clearly and concisely. Refer to Scoresheet SF259.
- Each display must have a one-page essay explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used.
- The essay should be in a clear plastic cover with the exhibitor's name outside.

**G751001 Weed Identification Book: (SF261)** A collection of a minimum of 15 plant mounts including at least two of the following prohibited noxious weeds (Canada thistle, musk thistle, plumeless thistle, saltcedar, leafy spurge, purple loosestrife, diffuse knapweed, spotted knapweed, Japanese knotweed, bohemian knotweed, giant knotweed, sericea lespedeza or phragmites) and at least three weeds that are a problem primarily in lawns.

**G751002 Life Span Book: (SF261)** A collection of 7 perennials, 1 biennial, and 7 annual weeds.

**G751003 Weed Display (SF259)** The purpose of this class is to allow original and creative exhibits that contain educational information about weeds, such as interesting information about a weed species, the effects of weed control, herbicide resistant weeds, what makes a weed a weed, or uses for weeds.



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# RANGE

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The purpose of this category is to help 4-H'ers identify and collect range plants. In addition, participants will learn the basics of range management, and Nebraska's range. Through the creation of range boards 4-H'ers will become more proficient in knowledge of Nebraska's range.

## Rules:

1. Each exhibit must be properly identified with Unit and Class.
2. All plant displays and display covers must be the result of the current year's work.
3. Plant identification and lists of appropriate plants in each category (grasses, forbs, shrubs, and grass-like plants) can be found in the Range Judging Handbook and Contest Guide (EC150, Revised July 2016), Common Grasses of Nebraska (EC170), and Common Forbs and Shrubs of Nebraska (EC118).
4. The purpose of these exhibits is to demonstrate to the public the benefits from the study and application of crop, weed, range, and soil sciences to solving problems in management, conservation, sustainability, and environmental protection.
5. For guidelines on specific projects, refer to appropriate project manuals.
6. **Books (Classes 1-6):** For books, plants must be mounted on sheets that are no larger than 14 inches wide by 14 inches high. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Proper plant mount should include root, as well as stem and leaf tissue. Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness, and conformation to project requirements. Each completed mount must have the following information (see example below) in the lower right corner of the mounting sheet: Scientific name (in italic or underlined), with authority - Common name. - County of collection. - Collection date. - Collector's name. - Personal collection number, indicating order that plants were collected in your personal collection. - Other information, depending on class selected, i.e., value and importance, life span, growth season, origin, major types of range plants. This information should be typed or printed neatly.
7. **Displays (Class 7):** The purpose of the display is to tell an educational story to those that view the display. The display is a visual representation (pictures, charts, graphs) no larger than 28 inches by 28 inches on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side.
8. **Boards (Classes 8-9):** Boards should be no larger than 30 inches wide by 36 inches tall. Boards should be adequately labeled.

**Scoresheets,** forms, contest study materials, and additional resources can be found at <http://go.unl.edu/ne4hrange>.

**Resources:** Learn the names of range plants; Identify and collect range plants; Explore the basics of range management; Study Nebraska's grassland heritage; Understand plant vigor and the effects of grazing; Identify range sites; Calculate range conditions; Understand stocking rates; Learn the names of range plants; Identify and collect range plants; Explore the basics of range management  
[https://4hcurriculum.unl.edu/index.php/main/program\\_project/116](https://4hcurriculum.unl.edu/index.php/main/program_project/116)

## DEPT D / DIV 330 Range Management

### D330001 Value and Importance for Livestock Forage and Wildlife Habitat and Food Book: (SF260) A

collection of 12 different plant mounts, with 4 classified as high value, 4 as medium value, and 4 as low value for livestock forage, wildlife habitat, or wildlife food. Value and importance classifications can be found in the Range Judging Handbook and Contest Guide, Appendix Table 1 (EC150, Revised July 2016) starting on page 42. Plants can consist of any combination of grasses, grass-like plants, forbs, or shrubs. Assemble plant mounts in order of high, medium, and low value and importance. Label each plant mount with its value and importance classifications for each of the three areas: Livestock Forage, Wildlife Habitat, Wildlife Food.

**D330002 Life Span Book: (SF260)** A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.

**D330003 Growth Season Book: (SF260)** A collection including 6 cool-season grass mounts and 6 warm-season grass mounts.

**D330004 Origin Book: (SF260)** A collection of plant mounts of 6 native range grasses and 6 introduced grasses. Introduced grasses are not from North America and often used to seed pastures.

**D330005 Major Types of Range Plants Book: (SF260)** A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like and 3 shrubs.

**D330006 Range Plant Collection Book: (SF260)** A collection of 12 range plant mounts with something in common (i.e., poisonous to cattle, or historically used as food by Native Americans, or dye plants, or favorite antelope forage, etc.). Include a short paragraph in the front of the book which describes what the plants have in common and why you have chosen to collect them.

**D330007 Parts of a Range Plant Poster: (SF259)** Mount a range plant on a poster board. Label all the plant parts. Include the plant label in the lower right corner, including the scientific and common name of the plant. Put your name and 4-H county on the back of the poster.

**D330008 Special Study Board: (SF260)** A display of the results of a clipping study, a degree of use study, range site study, etc. A short essay must accompany the display to explain the reason for the study, what was learned, and study results. This should be placed in a sheet cover attached to the board.

**D330009 Junior Rancher Board: (SF260)** This exhibit should include a ranch map with a record book or an appropriate educational display on some phase of rangeland or livestock management. A short essay must accompany the display to explain the purpose of the rancher board, what was learned, etc.