4-H



COUNTY FAIR BOOK

Updated for 2024

4-H Program Participant/Parent/Guardian Code of Conduct

The primary goal of the 4-H Program is to help youth develop competency in their projects, confidence in themselves and others, connections to their community and sound character. Actions by persons (Parents, and 4-Her's) involved with the 4-H Program will be consistent with the six core ethical values comprising good character: trustworthiness, respect, responsibility, caring, fairness and citizenship. As a 4-H Participant/Parent/Guardian I will:

- Treat all people and property with respect, courtesy, consideration and compassion. Avoid and prevent put-downs, insults, name calling, swearing and other language or nonverbal conduct likely to offend, hurt or set a bad example.
- Keep informed about 4-H program policies and projects and read materials pertaining to the county 4-H program.
- Teach and model kindness and compassion for others. Recognize that all people have skills and talents which can be used to help others and improve the community. Teach and foster teamwork and discourage selfishness.
- Practice fair-mindedness by being open to ideas, suggestions and opinions of others. I will make
 all reasonable efforts to assure equal access to participation for all youth and adults regardless of
 race, creed, color, sex, national origin or disability. Decisions will be made fairly and treat all
 individuals and families with impartiality.
- Obey laws and rules as an obligation of being a good citizen. I accept responsibility for the proper treatment and care for other youth and adults, the program facilities and/or equipment.
- Demonstrate the responsible treatment of animals and stewardship of the environment.
- Not use alcohol or illegal substances (or be under the influence) while working with or participating
 in any part of the 4-H Program.
- Provide a safe environment for all parties involved in 4-H. I will protect those involved from sexual harassment, physical force, verbal or mental abuse, neglect, or other harmful behaviors.

4-H Parents, Guardian and/or Youth who do not abide by the above code of conduct, may receive the following consequences:

- Be asked to explain actions to the 4-H Council.
- Be dismissed from an event at own expense.

Further disciplinary action determined by the 4-H Council, which may include:

- Restriction from contacting 4-H families, volunteers, donors, and/or sponsors pertaining to any 4-H matter.
- Becoming ineligible to attend any further 4-H activities.
- Family may become ineligible to participate in the County 4-H Program.
- Reimburse the proper entity for any property damage or for liability resulting from inappropriate
 actions. In the case of vandalism, guilty party may be required to reimburse 4-H and/or the facility.

4-H Division General Information

GENERAL: To be eligible to show in this department, a boy or girl must be enrolled as a 4-H member in their county of residence by the deadline set by their county. A 4-H member must be enrolled in the project in which (s)he exhibits by the enrollment date set by their county of membership. No 4-H exhibitor will be permitted to exhibit the same entry in Open Class. All projects should be made in the current 4-H year unless specifically stated otherwise in the exhibit class instructions. Each exhibitor is limited to one item per class (unless specified otherwise). All 4-H exhibits will be judged by the Danish System. Regulations not covered in the county fair 4-H rules will be governed according to the State 4-H rules. All participants in each contest will receive equal payments for equal placing in each contest. There will be no discrimination because of race, religion, economic status, sex, or handicap.

NO FIREARMS, ITEMS WITH A BLADE: (broad heads, knives, saws, etc.) or related items of any other kind, may be exhibited. This applies to actual items, replicated items and item parts. Shooting sports accessories are permissible as described in the Conservation, Wildlife and Shooting Sports Fair Book. USE OF COPYWRITTEN IMAGES: Copyrighted writing, artwork, videos, and images may be used in 4-H educational exhibits under Fair Use for educational purposes of Copyright Law. In order to qualify for Fair Use, 4-H'ers must: 1) only use a small amount of the copy-written work, 2) add new meaning to the work to make it original, 3) rework it and use it in a totally different way, and 4) use it for nonprofit purposes (not to make money). Giving credit to the original creator is also recommended.

Clover Kids

The purpose of the Clover Kids program is to promote the positive development of youth to become competent, caring, contributing citizens. The learning experience is the primary reason for involvement in the program. Clover Kid exhibits are non-competitive and are not eligible for the state fair.

4-H Clover Kids participants receive participation ribbons *only*: No trophies, premiums or awards are given.

Exhibitors must be at least five years of age and not older than seven years of age by January 1 of the current year.

Protest or Appeals Process

The respective superintendents at the county fair have the authority to make the appropriate decisions based on the County Fair Book.

A committee shall be appointed to serve as a protest group. <u>All protests must be submitted in writing and signed.</u>

Written protests must include:

Names of person(s) involved Description of the concern Situation and documentation Specific action, rule, etc., in question

Disclaimer of Responsibility for Fair Exhibits

4-H exhibits at County and State Fair are entered and displayed at the risk of the 4-H member. The County/State Fair Board accepts exhibits and will exercise due care to protect them. However, 4-H and County/State Fair Board cannot accept responsibility for loss or damage due to the conditions imposed by large crowds, the arrangement of the buildings in which displays are housed and the great number of exhibits. 4-H'ers who have exhibits of great sentimental and/or monetary value should carefully consider whether such exhibits should be exposed to the hazards of the fair. The county Extension Office reserves the right to refuse to transport any item selected for State Fair that they feel is too large or fragile to deliver to Grand Island without damaging it.

IMPORTANT—How to Read This Fair Book

- General instructions for the entire department/division are listed at the beginning of each division. It is important to read this section completely before proceeding to the specific class you plan to enter.
- Specific instructions for each class are listed next to the **bolded** exhibit title.
- Exhibits entered without following the *general* and *specific* instructions for each division and class may be lowered one ribbon placing or *disqualified* from competition at the discretion of the judge, fair superintendent or Extension staff. (Please read your fair book carefully as content changes from year to year, and contact the Extension Office if you have any questions.)
- Classes listed with an asterisk (*) next to the class number are eligible for State Fair.
- Projects without a specific exhibit listed may exhibit in the poster-open theme class (DEPT. B Division 155 Class 903).

PROJECT INDEX

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- Bicycle Adventures 1
- A Space for Me
- Clover Kids Beyond the Needle
- Clover Kids Photography
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- Family Celebrations From Around the World
- Just Outside Your Door
- Making Foods For Me
- Clover Kids Animals
- Clover Kids Gardening

DEPT. A: Leadership & Citizenship

Heritage

Citizenship

- Citizenship: Public Adventures
- Seeing i2i

Leadership

- Serving as a Junior Leader
- Step Up to Leadership 1
- Step Up to Leadership 2
- Step Up to Leadership 3

DEPT. B: Communications &

Expressive Arts

Banner/Booth/Club Exhibit Club Officer Projects

Communications

- Communications Module 1
- Communications Module 2
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Posters

Theatre

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Photography

- Photography Basics
- Next Level Photography
- Mastering Photography

DEPT. C: Family & Consumer Science

Human Development

- I Have What it Takes to be Your Babysitter
- Kids on the Grow 1
- Kids on the Grow 2
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General Clothing

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Clothing and Fiber Arts

- STEAM Clothing 1: Fundamentals
- STEAM Clothing: Beyond the Needle
- STEAM Clothing 2: Simply Sewing STEAM Clothing 3: A Stitch Further
- Knitting
- Crochet
- Weaving
- 4-H Fashion Show
- Quilt Quest

Consumer Education

- Shopping in Style
- My Financial Future: Beginner
- My Financial Future: Advanced

Home Design & Restoration

- Design My Place
- Preserving Heirlooms
- Design Decisions
- Crafts

Visual Arts

- Portfolio Pathways
- Sketchbook Crossroads

DEPT. D: Environmental Education & Earth Sciences

Forestry

Tree Identification

Range Management

- Reading The Range 1
- Using Nebraska Range 2

Wildlife and How They Live

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- Wildlife Conservation 3
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- Bird Behavior
- Fishing for Adventure 1
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- Fishing for Adventure 3

Outdoor Adventures

- Outdoor Skills
- Outdoor 1: Hiking Trails
- Outdoor 2: Camping Adventures
- Outdoor 3: Backpacking Expeditions

Wildlife Habitat

Wildlife Habitat Evaluation

Harvesting Equipment

- Fishing for Adventure 1
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- Fishing for Adventure 3
- Shooting Sports

Taxidermy

Shooting Sports

Other Natural Resources

- Wildlife Conservation 1
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- Wildlife Conservation 3
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- Bird Behavior
- Fishing for Adventure 1
- Fishing for Adventure 2
- Fishing for Adventure 3
- Wildlife Habitat Evaluation
- **Shooting Sports**
- Outdoor Skills
- 4-H Geology **Environment 1**
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DEPT. E: Healthy Lifestyles Education

General Foods

For all Foods & Nutrition projects

Food and Nutrition

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- Cooking 201
- Cooking 301
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Food Preservation

- Food Preservation 1: Freezing
- Food Preservation 2: Drying
- Food Preservation 3: Boiling Water Canning
- Food Preservation 4: Pressure Canning

Cake Decorating

Safety

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All-Terrain Vehicles (ATV)

Bicycle

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DEPT. F: Entrepreneurship

Entrepreneurship

- ESI: Discover the E-Scene
- ESI: The Case of ME
- ESI: Your Business Inspection
- Blueprint

DEPT. G: Plant Science

Agronomy

- Field Crops 1
- Field Crops 2
- Field Crops 3
- Special Agronomy Project

Weed Science

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Floriculture

- The World of Flowers
- Annual Flowers
- Houseplants

Horticulture

- Everyone a Gardner
- Gardening A
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<u>DEPT. H: Science, Engineering &</u> Technology

Entomology

- Insectigator
- Entomology 1
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Veterinary Science

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- Animal Disease
- Animal Health and its Relationship to Our World

STEM Rockets

- Aerospace 2
- Aerospace 3
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STEM Computers

- Computer Mysteries1
- Computer Mysteries 2
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STEM Robotics

- Junk Drawer Robotics 1
- Junk Drawer Robotics 2
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- Robotics Platforms

Robotics Showcase

STEM Electricity

- Electric Excitement 1
- Electric Excitement 2
- Electric Excitement 3
- Electric Excitement 4

4-Wheelin' Physics Fun

STEM Geospatial

Small Engines

- Small Engines 1
- Small Engines 2
- Small Engines 3

STEM Energy

Power of the Wind

STEM Woodworking

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STEM Welding

Arc Welding

Rope

Leather Craft

DEPARTMENT P: CLOVER KIDS

General Instructions: Clover Kids

<u>Purpose</u>: The purpose of the Clover Kids program is to promote positive development of youth to become competent, caring, contributing citizens. The learning experience is the primary reason for involvement in the program.

Non-Competitive Program: The 4-H Clover Kids program is a non-competitive program designed for youth ages 5-7 years (as of January 1 of the current year). All Clover Kids activities will be non-competitive with participants receiving participation (rainbow) ribbons for activity participation.

<u>Enrollment Requirements</u>: Clover Kids must enroll in 4-H by the deadline stated by the county of participation (contact your local Extension Office for enrollment deadline details).

<u>Fair Pre-Entry Requirements</u>: 4-H Clover Kid Animal entries must be identified on the appropriate forms and turned in to your local Extension Office by the due dates set by that office to qualify for county fair entry. All fair exhibits MUST be pre-entered by the due date set by your county Extension Office on the forms provided by your county.

<u>Animal Projects</u>: According to the State 4-H Policy and Procedures Handbook Clover Kids programs involving live animals must adhere to the following:

- Exhibition includes discussions with youth based on their knowledge of the care and raising of the animal.
- Exhibitors show in a non-competitive setting for participation only.
- Age, size, and temperament of animal projects must be appropriate for the exhibitor's age and size.
- Horse projects are NOT allowed or appropriate. Beef animals weighing more than 350 pounds at time of show are NOT allowed or appropriate for this age group either.
- Animals that are appropriate for this age group include bucket calf, sheep, swine, goat, dog, poultry, rabbit, cat, and companion animals.
- There will be one adult/teen volunteer present for every Clover Kid member that is handling or exhibiting animals. This applies to all animal projects.
- Allowable large animals should be no more than six months of age and no more than 350 pounds at time of show.
- Exhibitors in this age group are not allowed to sell their animal through a livestock sale or premium auction.

Quality Assurance Training: Quality Assurance Training is not required for 4-H Clover Kids.

Ribbon Premiums: Ribbon premiums or any other financial premiums or incentives are not allowed.

Aerospace 1

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class.

Division 900

Classes in this division are ineligible for State Fair

Class P900900 Space Buggy Design and make a spacecraft from household items or items that could be reused instead of being thrown away. Materials list: Scissors, glue, assorted clean household materials such as paper towel tubes, tissue boxes, plastic bottles, etc. Draw a picture of your buggy on a sheet of paper. On another sheet of paper, briefly explain the job/jobs your space buggy can do. Include both sheets with your exhibit.

Class P900901 Space Station Draw a design of what you think an International Space Station of the future might look like. Using household items, build a model of that station. On a sheet of paper, briefly describe how scientists would use your space station.

Class P900902 Rocket Any skill level 1 rocket. <u>Refer to General Instructions for STEM Rockets (Dept.</u> H) for rules regarding rocket displays.

Class P900903 Rocket Drawing On a 8 $\frac{1}{2}$ inches x 11" inches sheet of paper or on a sheet of 11" inches x 14" inches poster board, draw a rocket. Label the three main parts.

Class P900904 Bird Drawing On a $8 \frac{1}{2}$ " inches x 11" inches sheet of paper or on a sheet of 11" inches x 14" inches poster board, draw your favorite bird.

Class P900905 Airplane Drawing On a 8 $\frac{1}{2}$ " inches x 11" inches sheet of paper or on a sheet of 11" inches x 14" inches poster board, draw your favorite airplane.

Class P900906 Paper Flyer Make your favorite kind of paper flyer, This can be an airplane, helicopter, rocket or any other flying machine.

Class P900907 Marshmallow Rocket Rocket exhibit made with marshmallows and toothpicks. Parts of the rocket must be labeled.

Class P900908 Other Aerospace Exhibit Using skills learned in the Aerospace 1 project.

Bicycle Adventures 1

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class.

Division 901

Classes in this division are ineligible for State Fair

Class P901900 Bicycle Helmet Story On a 8 $\frac{1}{2}$ " inches x 11" inches sheet of paper or on a sheet of 11" inches x 14" inches poster board, tell why bicycle helmets are important. No more than 2 paragraphs if exhibiting the 8 $\frac{1}{2}$ " inches x 11" inches sheet (photographs or drawings may be included). Include 3-5 photographs or drawings along with captions if making a poster.

Class P901901 Hand Signals Poster On a sheet of 11" inches x 14" inches poster board, draw and label the three hand signals used when riding a bicycle.

Class P901902 Safe Riding Poster On a sheet of 11" inches x 14" inches poster board, draw and label three safe bicycle riding practices.

Class P901903 Other Bicycle Exhibit Using skills learned in Bicycle Adventures 1.

A Space For Me

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class.

Division 902

Classes in this division are ineligible for State Fair

Class P902900 Treasure Board or Bulletin Board

Class P902901 Decorative Storage Box or Container Decorate a storage box or container to save space or use space wisely.

Class P902902 Recycle a Vintage Suitcase or Trunk Upcycle a vintage item to create storage for your room.

Class P902903 Non-Sewn Pillow or Blanket

Class P902904 Coat Hooks or Hangers

Class P902905 Decorated Laundry Bag or Hamper

Class P902906 Energy Saving Sign

Class P902907 Draft Stopper

Class P902908 Recycling Box Create an item for recycling items around the home. <u>Example</u>: Recycling newspapers, pop cans, plastic, etc.

Class P902909 Painted Container Paint a container to decorate your room.

Class P902910 Swirl Painted Magnet

Class P902911 Pizza Color Wheel

Class P902912 Sponge Painted Picture

Class P902913 Decorated Picture Frame

Class P902914 Scratch Art

Class P902915 Neutrals and Colors Accessory Using neutral colors add a pop of color by creating a colorful decorative item or accessory for your neutral space.

Class P902916 Plastic Canvas Wall Hanging

Class P902917 Other A Space For Me Exhibit Using skills learned in A Space For Me.

Clover Kids Beyond The Needle

All exhibits are required to be labeled with: Exhibitor name, age, county, project name, class entered and the number of years enrolled in project exhibited. Attach a label to every component of the exhibit using safety pins or by basting. One entry per class.

Division 903

Classes in this division are ineligible for State Fair

Class P903900 Decorated Garment Any method may be used that does not require the use of an iron or sewing machine.

Class P903901 Decorated Accessory Any method may be used that does not require the use on an iron or sewing machine.

Class P903902 Beyond the Needle Fashion Revue

Clover Kids Photography

All exhibits are required to be labeled with exhibitor name, age and county. Mount a single photograph on poster board (white or black), a 3" inch boarder should show around all sides of the print. The photo may be any size up to 8" inches x 10" inches displayed horizontally or vertically. Prints may be black & white or color. One entry per class.

Division 904

Classes in this division are ineligible for State Fair

Class P904900 Photo of an Animal(s)
Class P904901 Photo of a Person (People)
Class P904902 Photo of an Object
Class P904903 Photo of Scenery

Theatre Arts 1

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class.

Division 905

Classes in this division are ineligible for State Fair

Class P905900 You Be the Teacher Share with others what you learned in this project. Exhibit may be a poster, notebook, display, audiotape or videotape.

Class P905901 Other Theatre Arts Exhibit Using skills learned in the Theatre Arts 1 project.

Family Celebrations From Around the World

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class.

Division 906

Classes in this division are ineligible for State Fair

Class P906900 Name Rhyme On a 8 ½" inches x 11" inches sheet of paper, hand write a rhyme answering: What does my given name mean? See page 5 of leader's manual.

Class P906901 Mexican Piñata Use instructions found on page 8 of the leader's manual. Exhibit without candy and attach to a clothes hanger.

Class P906902 Japanese Hat Use instructions found on page 12 of the leader's manual.

Class P906903 Ohina Doll Use instructions found on page 11 and 14 of the leader's manual.

Class P906904 Carp Kite Use instructions found on page 15 of the leader's manual.

Class P906905 Mother's Day, Father's Day or Grandparent's Day Poster Using a sheet of poster board 11" inches x 14" inches, design a mini poster about your mom, dad, grandparent and yourself. A story, poem or pictures may be used.

Class P906906 May Basket Make a May basket you could give to a special friend or relative.

Class P906907 4th of July Using a sheet of poster board 11" inches x 14" inches, create the US flag using a medium of your choice.

Class P906908 Family Tree Using a sheet of poster board 11" inches x 14" inches, draw your family tree including at least 3 generations of your family.

Class P906909 Other Family Celebrations Exhibit Using skills learned in the Family Celebrations From Around the World project.

Just Outside Your Door

All exhibits are required to be labeled with exhibitor name, age and county. One entry per class

Division 907

Classes in this division are ineligible for State Fair

Class P907900 Bird Feeder/Waterer Any homemade bird feeder using recycled materials.

Class P907901 Water Picture On a sheet of poster board 11" inches x 14" inches show what you have discovered about water. Any medium may be used.

Class P907902 Growing Seed A seedling you have planted. Can be exhibited in any small container.

Class P907903 Insect Life Mobile

Class P907904 Insect Model Create your very own insect using any kind of non-edible medium and include all insect parts: 6 legs, one pair antenna, and 3 body sections.

Class P907905 Seed Medallion Use a 4" inch circle of cardboard and any kind of seeds to make a medallion. Use string or yarn to make a hanging loop for your medallion.

Class P907906 Sailboat Using any medium, create a small sailboat that can really float!

Class P907907 Treasure Hunt Collage Make a collage of items collected outdoors on a sheet of 11" x 14" poster board.

Class P907908 Other Just Outside Your Door Exhibit Using skills learned in the Just Outside Your Door project.

Making Foods for Me

IMPORTANT! FOLLOW ALL GENERAL INSTRUCTIONS FOR FOOD AND NUTRITION (DEPT. E) TO ENSURE FOOD SAFETY ON CLASSES 905 AND 906. Non-food classes are required to be labeled with exhibitor name, age and county. One entry per class

Division 908

Classes in this division are ineligible for State Fair

Class P908900 Making Food for Me Placemat Colored and decorated. Lamination or protection with clear contact paper advised. (Center page in Save a Place For Me project book)

Class P908901 Food Cards Neatly cut and colored Food Cards, in self-sealing plastic bat or other secure container. (Pages 67-69 Leaders Guide)

Class P908902 Grain Collage Neatly cut and pasted pictures of grains, cut out and displayed on collage. (Page 40 Leaders Guide)

Class P908903 Dairy Tasting Party Completed Dairy Tasting Party form from Project Book (Page 17). May be copied or cut from manual.

Class P908904 Protein Collage Neatly cut and pasted pictures of protein sources and foods displayed on collage. (Page 53 of Leaders Guide)

Class P908905 Healthy Snack Four cookies, bars, muffins, etc., on a paper plate, or at least 1 cup of mix. (Examples might include: Snack mix made from a cereal base, no-bake or simple cookie or granola bar). Follow the General Instructions for Food and Nutrition.

Class P908906 Other Food Exhibit Using skills learned in the Making Foods for Me project. Follow the General Instructions for Food and Nutrition.

Clover Kids Animals

IMPORTANT! FOLLOW THE GENERAL INSTRUCTIONS FOR YOUR CLASS OF ANIMAL IN THE 4-H LIVESTOCK FAIR BOOK APPROPRIATE TO YOUR COUNTY TO ENSURE ANIMAL AND 4-H'ER SAFETY. No animals over 350 lbs. may be shown by Clover Kids. ID forms are due to your Extension Office on animals requiring this form by the date set by your office. Contact the Extension Office for additional details. One entry may be shown per class.

Division 910

Classes in this division are ineligible for State Fair

Class P910900 Pocket Pet Examples Include: Hamster, gerbil, guinea pig, etc.

Class P910901 Bucket Calf

Class P910902 Feeder Calf

Class P910903 Goat

Class P910904 Sheep

Class P910905 Swine

Class P910906 Rabbit

Class P910907 Poultry

Class P910908 Cat

Class P910909 Dog

Clover Kids Gardening

SEE HORTICULTURE GENERAL INSTRUCTIONS (DEPT. G) FOR EXHIBIT ENTRY GUIDELINES.

Division 911

Classes in this division are ineligible for State Fair

P911900 Vegetables 2 exhibits may be entered in this class. Each exhibit must be a different class (see Dept. G, Division 773 for classes and class details).

P911901 Flowers 2 exhibits may be entered in this class. Each exhibit must be a different class (see Dept. G, Division 770 for classes and class details).

P911902 Herbs 2 exhibits may be entered in this class. Each exhibit must be a different class (see Dept. G, Division 773 for classes and class details).

P911903 Fruits 2 exhibits may be entered in this class. Each exhibit must be a different class (see Dept. G, Division 773 for classes and class details).

P911904 Potted Plants 2 exhibits may be entered in this class. Each exhibit must be a different class (see Dept. G, Division 770 for classes and class details).

P911905 Flower or Gardening Poster One exhibit may be entered in this class on poster board 14" inches x 22" inches. Examples Include: Poster with different types of vegetables with labels, flower poster with the different flower parts labeled, etc. Any medium may be used to illustrate your poster (clip art, magazine clippings, photographs, etc. are acceptable).

DEPARTMENT A: LEADERSHIP & CITIZENSHIP

Heritage

General Instructions: 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.

<u>Please Note</u>: Exhibits are entered at 4-H'ers own risk. We will not be responsible for loss or damage to family heirloom items or any items in this division.

<u>Displays</u>: 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 Extension Office for approval. Display collections securely in an attractive container no larger than 22" inches x 28" inches. <u>Label</u>: Exhibits must include NAME, COUNTY, AGE & PAST EXPERIENCE (years in Explore your Heritage project) on back of exhibit.

Documentation: All entries must have documentation included.

Division 101

-Level One: Beginning (1-4 years in project)-

- *Class A101001 Heritage Poster or Flat Exhibit Entries may be pictures, posters, items that depict family heritage. Exhibits must be supported by a written explanation.
- *Class A101002 Family Genealogy/History Notebook Include pedigree charts/family group sheets, with documentation for two-three generations of one family line, expanding each year. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A101003 Local History Scrapbook/Notebook Scrapbook or notebook that depicts history of local community or Nebraska that helps youth appreciate their heritage.
- *Class A101004 Framed Family Photos Framed family groupings (or individuals) of pictures showing family history. Pictures must be supported by written explanation.
- *Class A101005 Other Exhibit(s) Depicting the heritage of the member's family or community. Exhibit must be supported by a written explanation. May include, biographical album of themselves or another family member, family cookbooks, etc.
- *Class A101006 4-H History Scrapbook 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 included in exhibit, only bring book with most current year's work.
- *Class A101007 4-H History Poster Poster relating 4-H history of local club or county or individual.
- *Class A101008 Story or Illustration About a Historical Event
- *Class A101009 Book Review about Local, Nebraska, or Regional History
- *Class A101010 Other Historical Exhibits Attach an explanation of historical importance.
- *Class A101011 Family Traditions Book Exhibitor scrapbook depicting family traditions of the past.
- *Class A101012 Family Traditions Exhibit Story or illustration of a family tradition or event. Exhibits must be supported by a written explanation.
- *Class A101013 4-H Club/County Scrapbook Scrapbook relating 4-H history of local club or county compiled by club historian. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A101014 4-H Member Scrapbook Scrapbook relating to individual 4-H member's 4-H history. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A101015 Special Events Scrapbook A scrapbook relating to a 4-H special event, such as a Congress or CWF or a personal or family special event, such as a trip, family reunion, etc.

- -Level Two: Advanced (Over 4 years in project)-
- *Class A102001 Heritage Poster or Flat Exhibit Entries may be pictures, posters, items that depict family heritage. Exhibits must be supported by a written explanation.
- *Class A102002 Family Genealogy/History Notebook Include pedigree charts/family group sheets, with documentation for two-three generations of one family line, expanding each year. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A101003 Local History Scrapbook/Notebook Scrapbook or notebook that depicts history of local community or Nebraska that helps youth appreciate their heritage.
- *Class A102004 Framed Family Photos Groupings (or individuals) of pictures showing family history. Pictures must be supported by written explanation.
- *Class A102005 Other Exhibit(s) Depicting the heritage of the member's family or community. Exhibit must be supported by a written explanation. May include, biographical album of themselves or another family member, family cookbooks, etc.
- *Class A102006 4-H History Scrapbook 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 included in exhibit, only bring book with most current year's work.
- *Class A102007 4-H History Poster Poster relating 4-H history of local club or county or individual.
- *Class A102008 Story or Illustration About a historical event.
- *Class A102009 Book Review About local, Nebraska, or regional history.
- *Class A102010 Other Historical Exhibits Attach an explanation of historical importance.
- *Class A102011 Exhibit Depicting the importance of a community of Nebraska historic landmark.
- *Class A102012 Community Report Documenting something of historical significance from past to present.
- *Class A102013 Historic Collection Displayed securely and attractively in container no larger than 22" inches x 28" inches.
- *Class A102014 Video Documentary Documentary of a family or a community event. Must be produced and edited by 4-H member. (must be entered as a DVD or USB)
- *Class A102015 4-H Club/County Scrapbook Scrapbook relating 4-H history of local club or county compiled by club historian. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A102016 4-H Member Scrapbook Scrapbook relating to individual 4-H member's 4-H history. If multiple books included in exhibit, only bring book with most current year's work.
- *Class A102017 Special Events Scrapbook A scrapbook relating to a 4-H special event, such as a Congress or CWF or a personal or family special event, such as a trip, family reunion, etc.

Citizenship

Projects: Citizenship: Public Adventures, Seeing i2i

General Instructions: 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.

<u>Please Note</u>: Exhibits are entered at 4-H'ers own risk. We will not be responsible for loss or damage to family heirloom items or any items in this division.

<u>Displays</u>: Displays should not be larger than 22" inches x 28" inches wide. If the size needs to be a different size because the item is larger than 22" inches x 28" inches, please contact the Extension Office for approval. Display collections securely in an attractive container no larger than 22" inches x 28" inches.

Supporting Material: All entries must have a statement explaining:

- 1. The purpose of the exhibit.
- 2. 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.
- 3. 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).
- 4. Identification-All entries should be labeled with the exhibitor's name, club and county.

Division 120

-Citizenship-

*Class A120001 Care Package Display 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, PowerPoint® or another multimedia program to tell 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:

- 1. How did you select the organization?
- 2. What items did you include in your care package?
- 3. Why did you select those items?
- 4. How did it feel to present your care package to the organization?
- 5. What did you learn from the experience?
- 6. Other information that you feel is important about the care package or organization.

<u>Some Examples of Care Packages Are</u>: Backpack for school supplies, litter pan for animal shelter items, suitcase for abuse shelter or homeless shelter, etc.

*Class A120002 Citizenship Game 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.

*Class A120003 Patriotic or Cultural Fine Arts Can be made of any art media but should tie in the relevance of the artwork to citizenship.

*Class A120004 Public Adventure Scrapbook Should describe your Public Adventure or Service Learning Activity. Scrapbooks must measure no more than 16" inches x 16" inches.

*Class A120005 Public Adventure Poster 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.

*Class A120006 Written or Recorded Stakeholder Interview 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.

*Class A120007 Written Citizenship Essay Designed to promote good citizenship and patriotism. This essay is open to all age groups. All essays should be 300-400 typewritten words.

*Class A120008 Oral Citizenship Essay (for 9th-12th graders only) 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.

*Class A120009 Service Items 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.

*Class A120010 4-H Club Exhibit 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, care package or Quilt of Valor.

Division 130

-Seeing i2i-

- *Class A130001 Cultural Fine Arts Can be made of any art media but should symbolize what makes them unique.
- *Class A130002 How are We Different? Interview Interview 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.
- *Class A130003 Name Art Should be a creative art exhibit that symbolizes or explains where your name came from and what it means. Can use any media.
- *Class A130004 Family History 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.)
- *Class A130005 Cultural Food Exhibit depicting a cultural food that is special to your family. Can be a story or essay.
- *Class A130006 "This is Who I Am" Poem A poem written by the 4-H'er that reflects who they are.
- *Class A130007 Poster A poster that depicts what you have learned through the i2i project.
- *Class A130008 Biography About a historical figure that has made a positive impact on our society or who have made a difference in the lives of others.
- *Class A130009 Play Script Written about a different culture.

Leadership

Projects: Serving as a Junior Leader, Step Up to Leadership 1, Step Up to Leadership 2, Step Up to Leadership 3

Division 135

Classes in this division are ineligible for State Fair

Class A135900 Junior Leader Record Book To be a Junior Leader, you should be at least 12 years old by January 1 of current year, completed at least 2 years as a member and enroll in at least one other project.

- 1. Select leadership jobs to do based on needs of the club.
- 2. Complete the selected leadership jobs following the procedure planned with the leader. Using the Junior Leader Record Form, list the leadership tasks and the work planned at the beginning of the project year. Record accomplishments as you complete the various leadership tasks. Plan one of your junior leader jobs in detail. This job must be one in which you will take the major responsibility, although there may be others helping you. You would be in charge of planning, making arrangements, and conducting the program.

Class A135901 My Leadership Workbook (for Grades 3-5) Turn in completed NATL4H07905 My Leadership Workbook and any other supporting materials to the extension office after each leadership year is completed. Subsequent project years (up to 3 total) will be compiled in the same workbook and turned in after each additional leadership year is completed.

Class A135902 My Leadership Journal (for Grades 6-8) Turn in completed NATL4H 07906 My Leadership Journal and any other supporting materials to the extension office after each leadership year is completed. Subsequent project years (up to 3 total) will be compiled in the same workbook and turned in after each additional leadership year is completed.

Class A135903 My Leadership Portfolio (for Grades 9-12) Turn in completed NATL4H 07907 My Leadership Portfolio and any other supporting materials to the extension office after each leadership year is completed. Subsequent project years (up to 3 total) will be compiled in the same workbook and turned in after each additional leadership year is completed.

DEPARTMENT B: COMMUNICATIONS & EXPRESSIVE ARTS

Banner/Booth/Club Exhibit

Division 150

Classes in this division are ineligible for State Fair

Class B150900 Banner

- 1. Each banner should illustrate a phase of 4-H work or promote 4-H generally. Copyrighted materials cannot be used.
- 2. 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: https://4h.unl.edu/name-emblem-guidelines
 Banners are a two dimensional display depicting one idea. Dimensions are to be 3' feet x 6' feet. The banners can be arranged horizontally or vertically but will be displayed with the 3' foot side on the top. The exhibit will not be penalized for being arranged horizontally.
- 3. Banners must be hung on at least a 1/2" inch dowel or a rod strong enough to support the banner. The dowel should be at least 2" inches longer than the banner. The dowel should be on the 3' foot side so banner will hang 3' feet across and 6' feet long. Banners mounted any other way risk not being displayed due to technical problems.
- 4. Banners should be made of materials that permit the banner to be folded or rolled without damaging the display. Three dimensional objects should not be attached to the front of the banner.
- 5. Attach a label and an entry tag to the front, lower left-hand (as you face it) corner of the banner. The label should include the name of the club and county. Letters on this label should be 2" inches in height.

Class B150901 Booth Each 4-H Club or individual may exhibit one booth. One central theme should be followed for each booth. Booth space is in the 4-H Exhibit Hall and booths are approximately 6' feet x 6' feet. Booth space is granted on a first come—first serve basis with preference given to 4-H clubs. Reserve booth space by calling the County Extension Office.

Class B150902 Club Exhibit This is an exhibit that will be displayed outside on the fairgrounds and not in the 4-H Exhibit Hall. Examples of this are decorated hay bales, decorated and planted flower barrels, decorated trash barrels, etc. Make sure these exhibits are weatherproof. They also need a weather proof sign on the display indicating the club name. The club is responsible for bringing the exhibit to the fairgrounds, setting it up and taking it down.

Club Officer Projects

Division 150

Classes in this division are ineligible for State Fair

Class B150903 Secretary Book Book must be complete to date and contain a clear report of all activities for the year. Book must be entered by club secretary.

Class B150904 News Reporter Poster Entered by club news reporter. Should include four (4) news articles from the current year's club activities. Articles should be placed of an 8 1/2" inches x 11" inches sheet of paper or on a 14" inches x 22" inches poster. News articles should include date they appeared in newspaper.

Class B150905 4-H Club Scrapbook

Communications

Projects: Communications 1, Communications 2, Communications 3

Division 154

Classes in this division are ineligible for State Fair —Communications Module 1—

Use one or a combination of the experiential activities in the Communications, Module 1 curriculum to create an educational poster or essay sharing with others what you have learned. Topics may include, but are not limited to:

- Conducting an interview and sharing with a group
- Giving and understanding directions
- Evaluating and using appropriate Internet sources
- Composing a rap
- Preparing an illustrated talk

Class B154900 Poster Create a poster, measuring either 22" inches x 28" inches or 24" inches x 36" inches, that showcases what was learned in this project area.

Class B154901 Essay Write an essay (3-5 pages) that showcases what was learned in this project area.

-Communications Module 2-

Use one or a combination of the experiential activities in the Communications, Module 2 curriculum to create an educational poster or essay sharing with others what you have learned. Topics may include, but are not limited to:

- Identifying cultural differences in communication
- Developing guidelines for internet etiquette
- Evaluating another person's presentation
- Identifying communication careers
- Preparing a presentation using a form of technology

Class B154902 Poster Create a poster, measuring either 22" inches x 28" inches or 24" inches x 36" inches, that showcases what was learned in this project area.

Class B154903 Essay Write an essay (3-5 pages) that showcases what was learned in this project area.

-Communications Module 3-

Use one or a combination of the experiential activities in the Communications, Module 3 curriculum to create an educational poster, essay or digital media sharing with others what you have learned. Topics may include, but are not limited to:

- Composing a personal resume
- Completing research on a speech or presentation topic
- Identifying ways to reduce risks online
- Evaluating own cell phone usage and etiquette
- Critiquing advertisements
- Job shadowing a communication professional

Class B154904 Poster Create a poster, measuring either 22" inches x 28" inches or 24" inches x 36" inches, that showcases what was learned in this project area.

Class B154905 Essay Write an essay (3-5 pages) that showcases what was learned in this project area. Class B154906 Digital Media Design a form of digital media (advertisement, flyer, short video or presentation, social media or web page, etc.) that showcases what was learned in this project area. Upload the digital media file to an online location (web site, Dropbox, Google Drive, YouTube, Flikr, etc.) and using the web address of the digital medial file, create a QR code (using any free QR code creator, ex. qr-codegenerator.com). Print the following on an 8.5" inches x 11" inches sheet of cardstock:

- 1. The QR code
- 2. 1-3 sentences about what the viewers will see when they access the QR code on their mobile device

Posters

General Instructions: Posters

<u>Purpose</u>: The purpose of a poster is to call attention to a subject. Every poster must be crafted 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.

Posters Will be Judged on the Following Criteria:

- 1. <u>Idea</u>: Simple, clear message, appropriate for a poster.
- 2. Lettering: Readable from a distance, appropriate size in proportion to art.
- 3. Art: One dominant, eye-catching element, relates to written message.
- 4. <u>Arrangement</u>: Makes good use of entire poster space without being too crowded: art and lettering are well balanced.
- 5. Color: Use of bold colors that harmonize well, colors used are legible.
- 6. Quality of Construction: Neatness, appropriateness of materials used.
- 7. Effectiveness: Works well as a poster.
- 8. <u>Size</u>: Entries which do not conform to size, content or material guidelines will be lowered one ribbon placing. Posters must be 14" inches x 22" inches and must be of a material that can be pinned to a display board. They may be arranged either horizontally or vertically. 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.

<u>Posters May Be in Any Medium</u>: Watercolor, ink, crayon, markers or computer graphics etc. They may not be three-dimensional. Entries with components thicker than paper (such as milk cartons, pencils, pop cans) will be disqualified.

<u>Posters May Not Use Copyrighted Materials</u>: Materials such as cartoon characters or commercial product names, logos or slogans. Avoid using clichés or over-used phrases that do not command the viewer's attention.

<u>4-H Emblem</u>: 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: https://4h.unl.edu/name-emblem-guidelines

Original Design: Computer "clip art" will not be scored as positively as original computer art designs.

Label: The 4-H member's name, age, and county must be listed on the back of the poster.

<u>Poster Covering</u>: 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.

Division 155

Classes in this division are ineligible for State Fair

Class B155900 Exploring Careers with 4-H The poster should illustrate how 4-H'ers can explore career opportunities through 4-H projects.

Class B155901 Photo Poster The poster should focus on a 4-H theme of your choice, using one large, eye-catching photo.

Class B155902 Keeping it Green...Keeping it Healthy The poster should illustrate how 4-H encourages healthy lifestyles for youth and their families.

Class B155903 Open Theme This class allows 4-H members to create a poster and a theme to go with it. Class may be used for any 4-H project without a specific poster class.

Theatre

Projects: Theatre Arts Level 1, Theatre Arts Level 2, Theatre Arts Level 3

Division 161

Classes in this division are ineligible for State Fair

Class B161900 Costume Made or decorated by 4-H'er for use in a theater arts production. Costume could be for self or others.

Class B161901 Portfolio A collection of photographs, sketches or other samples illustrating the theatre arts learning such as costume design, stage make-up, written scripts, set design or other related learning. **Class B161902 Puppet** Made by the 4-H'er for use in a theatre arts production.

Class B161903 Script Written by the 4-H'er for a play, musical, skit, puppet show or other type of theatre arts production.

Class B161904 You Be the Teacher Share with others what you learned in this project. Exhibit may be a poster, notebook, display, audiotape or videotape.

Photography

Projects: Photography Basics, Next Level Photography, Mastering Photography

General Instructions: Photography (Divisions 180, 181 &182)

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.

General Information:

- 4-H members are allowed to exhibit in only one photography level.
- 4-H members may enter up to three exhibits but no more than one exhibit per class.
- An image may only be used on one exhibit with the exception of Portfolios which may include images entered in other classes.
- <u>Cameras</u>: Photos may be taken with any type of film or digital camera including phones, tablets and drones.
- Photos must be shot by the 4-H member during the current project year with the exception of Portfolios which may include images captured and/or exhibited in previous years.
- 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.
- 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
 - 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:

- 1) Printed portfolios should be presented in an 8.5" inches x11" inches three ring binder or similar book format. Recommended photo size is 8' inches x 10" inches. Matting is not necessary.
- 2) Digital portfolios may be presented online and must be exhibited along with a single 8.5 x 11" flyer. Flyers must include a line, URL, or QR code that takes users (judges and fairgoers) to their online portfolio.
- <u>Display Exhibits</u>: Display exhibits are accepted in Level 1 and Level 2. Displays consist of three 4" inches x6" inches photos mounted on a single horizontal 11" inches x 14" inches 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 in display classes. Photos may be mounted vertically or horizontally. Appropriate Data Tags are required (see rule regarding Data Tags).
- <u>Print Exhibits</u>: All print exhibits must be 8" inches x 10" inches prints mounted in 11" inches x14" inches (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 unit data tags are required (see rule regarding Data Tags).
- Entry Tags: Entry tags should be securely attached to the upper right-hand corner of the exhibit.
- <u>Data Tags</u>: 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 outlined below. Data tags should be securely attached to the back of the exhibit. Current data tags and a help sheet are available at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/

- o Level 1 Prints—All Level 1 prints must have a Level 1 Data Tag.
- Level 1 Picture 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.
- o Level 2 Prints—All Level 2 prints must have a Level 2 Data Tag.
- 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.
- o Level 3 Prints—All Level 3 prints must have a Level 3 Data Tag.

See examples below:

Level 1 Data Tag Name:	Age:	County:	
Years in Photography: _	Years in t	the Current Level: _	
Camera:			
	(brand make & model)		(digital or film)
Tell us about this photo	special equipment, techniqu	es, subject, locatior	ı, goals, etc.).
Describe any edits or ch	anges made to the picture us	sing digital software	
Level 2 Data Tag	_		
	Age:		
Years in Photography: _ Camera:	Years in t	the Current Level: _	
Camera.	(brand make & model)		(digital or film)
Focal Length:	,		(digital of filliff)
_	-		
	Include any special equipme		ed.
Tell us about this photo.		ent or techniques us	
Tell us about this photo. Describe any edits or ch	Include any special equipme	ent or techniques us	
Tell us about this photo. Describe any edits or ch Level 3 Data Tag	Include any special equipme	ent or techniques us sing digital software	
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography:	Include any special equipme anges made to the picture us Age: Years in t	ent or techniques us sing digital software County: the Current Level:	
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name:	Include any special equipme anges made to the picture us Age: Years in t	ent or techniques us sing digital software County:	
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera:	Include any special equipme anges made to the picture us Age: Years in to (brand make & model)	ent or techniques us sing digital software County: the Current Level: _	(digital or film)
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera: Focal Length:	Include any special equipme anges made to the picture us Age: Years in to (brand make & model) Shutter Speed:	ent or techniques us sing digital software County: the Current Level: _	(digital or film)
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera: Focal Length: Type/Source of light:	Include any special equipme anges made to the picture us Age: Years in to (brand make & model)	ent or techniques us sing digital software County: the Current Level: _	(digital or film) ISO:
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera: Focal Length: Type/Source of light:	Include any special equipme anges made to the picture us Age: Years in to (brand make & model) Shutter Speed:	ent or techniques us sing digital software County: the Current Level: _	(digital or film) ISO:
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera: Focal Length: Type/Source of light:	Include any special equipme anges made to the picture us Age: Years in to (brand make & model) Shutter Speed:	ent or techniques us sing digital software County: the Current Level: _	(digital or film) ISO:
Tell us about this photo. Describe any edits or ch Level 3 Data Tag Name: Years in Photography: Camera: Focal Length: Type/Source of light: Identify advanced equiping the control of	Include any special equipme anges made to the picture us Age: Years in to (brand make & model) Shutter Speed:	ent or techniques us sing digital software County:the Current Level: F Stop:adjustments used t	(digital or film) ISO: o capture this image

Data tag forms and additional photography exhibit instructions may be found at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/

—Level One: Photography Basics— Classes in this division are ineligible for State Fair

Display exhibits are encouraged for Level 1 exhibitors.

Level 1 Prints—All Level 1 prints must have a Level 1 Data Tag.

Level 1 Picture 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.

Class B180900 Fun With Shadows Display or Print Photos should capture interesting or creative use of shadows. (Activity 4)

Class B180901 Get in Close Display or Print Photos should capture a close-up view of the subject or object. (Activity 8)

Class B180902 Bird's or Bug's Eye View Display or Print Photo should capture an interesting viewpoint of a subject, either from above (bird's eye view) or below (bug's eye view). (Activity 10)

Class B180903 Tricks and Magic Display or Print Photos should capture visual trickery or magic. Trick photography require 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)

Class B180904 People, Places, or Pets with Personality Display or Print 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)

Class B180905 Black and White Display or Print 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. (Activity 15)

Class B180906 Challenging Photo Exhibit: Telling a Story Display 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. Display will consist of three 4" inches x 6" inches photos mounted on a single horizontal 11" inches x 14" inches black or white poster or mat board. Each photo in the display must be numbered using a pencil. Numbers should be readable but not distracting from the overall display. No titles, captions, or stick-on numbers are allowed. Photos may be mounted vertically or horizontally. Data tags are required for each photo in the display. (Activity 14)

-Level Two: Next Level Photography-

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.

Level 2 Prints—All Level 2 prints must have a Level 2 Data Tag.

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.

*Class B181010 Level 2 Portfolio 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 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.

*Class B181020 Creative Techniques & Lighting Display or Print 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)

*Class B181030 Creative Composition Display or Print 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)

*Class B181040 Abstract Photography Display or Print 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)

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

Class B181060 Expression Through Color Display or Print 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)

-Level Three: Mastering Photography-

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.

Level 3 Prints—All Level 3 prints must have a Level 3 Data Tag.

*Class B182010 Level 3 Portfolio 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 form 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.

*Class B182020 Advanced Techniques & Lighting Print 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)

*Class B182030 Advanced Composition Print Photos should show advanced compositions, such as using diagonal, horizontal, or vertical lines or repeating shapes to frame a subject or lead the viewers 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)

*Class B182040 Portrait Print 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)

*Class B182050 Still Life Print: 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)

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

DEPARTMENT C: FAMILY & CONSUMER SCIENCE

Human Development

Projects: I Have What it Takes to be A Babysitter, Kids on the Grow 1, Kids on the Grow 2, Kids on the Grow 3

General Instructions: Human Development

<u>General Information</u>: The term human development includes childcare, family life, personal development and character development.

<u>Information Sheets</u>: Classes 1-6 & Class 8—Final ribbon placing of the exhibit will include the completeness and accuracy of this information sheet.

Information Sheets for Classes 1-6 Should Include:

- 1. Where did I get the idea for this exhibit?
- 2. What decisions did I make to be sure exhibit is safe for child to use?
- 3. What age is this toy, game or activity appropriate for and why? (Infant, Birth-18 months; Toddlers, 18 months-3 years; Preschoolers, 3-5 years or Middle Childhood, 6-9 Years). 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).
- 4. How is the toy, game or activity intended to be used by the child?

Information Sheet for Class 8 (Babysitting Kit) Should Include:

- 1. State which ONE age group (infant, toddler, preschooler, middle childhood) the kit was prepared for.
- 2. What are children this age like? Give 2 examples to show how the kit would be appropriate for children this age.
- 3. What will the child learn or what skills will they gain by using the kit?
- 4. 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).

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

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.

4-H'ers taking I Have What it Takes to be a Babysitter may enter:

- *Class C200001 Social Emotional Development Information sheet required
- *Class C200002 Language and Literacy Development Information sheet required
- *Class C200003 Science Information sheet required
- *Class C200004 Health and Physical Development Information sheet required
- *Class C200005 Math Information sheet required
- *Class C200006 Creative Arts Information sheet required
- *Class C200007 Activity With a Younger Child Poster or scrapbook showing 4-H'er working with a child age 0 to 8 years. May show making something with the child, or child care or child interactions. May include photos, captions, story or essay. Size of exhibit is your choice. Other people may take photos so 4-H'er can be in the photos. 4-H'er must make scrapbook or poster. No information sheet needed for class 7.
- *Class C200008 Babysitting Kit Purpose of the kit is for the 4-H'er 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. See the manual for appropriate items to include. 4-H'er 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 x 15" inches x 10" inches. All items in kit must be safe for child to handle. Information sheet required

4-H'ers taking any of the projects in Department C 200 may enter:

*Class C200009 Family Involvement Entry 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, or 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.

4-H'ers taking Growing All Together (2 or 3) may enter:

- *Class C200010 Growing With Others Scrapbook or poster. Examples: How to decide if it's 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.
- *Class C200011 Growing in Communities Scrapbook or poster. <u>Examples:</u> 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.

Clothing & Fiber Arts

General Instructions: Clothing Exhibits

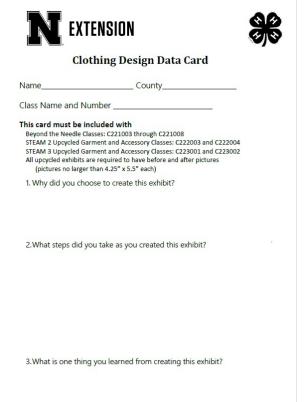
<u>Identification Label</u>: Each item entered as a clothing, knitting, crochet or weaving exhibit must have a label attached stating: County, exhibitor's name and age, project name and class in which garment is entered, and the number of years enrolled in the project exhibited. **Attach a label on every component of the outfit using safety pins or by basting**. Not responsible for unlabeled items.

<u>Wool Entries</u>: These 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 garments. All garments with at least 60% wool content are eligible for the "Make It With Wool" Award. (State Fair)

<u>Preparation of Exhibit</u>: 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 hung on a hanger. Wool garments and garments with narrow straps hang better on other hangers, i.e., wooden or notched plastic hangers. 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.

<u>General</u>: 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. <u>Example</u>: Once you exhibit in STEAM Clothing 3, you are not eligible to exhibit in STEAM Clothing 2.

<u>Criteria for Judging</u>: Refer to the Nebraska 4-H website for current state fair score sheets at www.4h.unl.edu. In addition, all entries must conform to rules and regulations as set forth in this fair book. <u>Design Data Card</u>: A design data card must be included with all Beyond the Needle Classes C221003 through C221008 and STEAM 2 and 3 upcycled exhibits. The data card (see example below) is available at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. 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.

General Clothing

4-H members in all skill levels of sewing may exhibit in this area

Division 220

*Class C220001 Clothing Portfolio 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 ½" inches x 11" inches three-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.

*Class C220002 Textile Science Scrapbook 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 ½" inches x 11" inches three-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 the STEAM Clothing 2 project manual for fabric suggestions.

*Class C220003 Sewing for Profit 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.

STEAM Clothing 1: Fundamentals

Exhibits will be simple articles requiring minimal skills. Follow suggested skills in project manual. May exhibit one item per class number. 4-H'ers who have enrolled in or completed STEAM Clothing 2 project are not eligible to exhibit in STEAM Clothing 1.

Division 210

Classes in this division are ineligible for State Fair

Class C210900 Clothing Portfolio Complete at least three different samples/activities from Chapter 2 OR Chapter 3 of the project manual. The Portfolio should be placed in an 8 ½" inches x 11" inches, 3 ring binder. Include an appropriate cover, dividers, and table of contents. (Additional pages can be added each year but should be dated.) See pages 9-10 of the STEAM Clothing 1 project manual for portfolio formatting. Class C210901 Sewing Kit Include a list of sewing notions and purpose for each included (pg. 12-17 in the STEAM Clothing 1 project manual).

Class C210902 Fabric Textile Scrapbook Must include at least 5 different textile samples. Use Textile Information Cards template on Page 41 in the STEAM Clothing 1 project manual to identify fabric swatches. Completed textile cards should be placed in an 8 ½" inches x 11" inches, 3 ring binder. Include an appropriate cover. See the STEAM Clothing 1 project manual for fabric suggestions.

Class C210903 What's The Difference 4-H members enrolled in STEAM Clothing 1 may enter an exhibit (not to exceed 22" inches x 30" inches) a notebook, poster, small display sharing a project comparison and price point. See the STEAM Clothing 1 project manual, "What's the Difference?" page 118-119. Exhibits should include pictures NO actual pillows.

Class C210904 Clothing Service Project Can include pillows or pillow cases but are not limited to those specific items. Exhibit (not to exceed 22" inches x 30" inches) a notebook, poster, small display sharing information you generated in the STEAM Clothing 1 project manual, activity "Serving A Purpose" page 124 and 125.

<u>Beginning Sewing Exhibits</u>: Exhibits must be made from medium weight woven fabrics that will sew and press smoothly, <u>flannel/fleece is acceptable</u>. 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 sleeve are acceptable.

If you plan to exhibit Class C210909 (Simple Top) AND Class C210910 (Simple Bottom) we ask that you make your items MATCH/COORDINATE and enter them as Class C210911 (Simple 2 Piece Outfit).

Class C210905 Pincushion

Class C210906 Pillowcase

Class C210907 Simple Pillow Pillow size to be no larger than 18" inches x 18" inches.

Class C210908 Bag/Purse No zippers or button holes may be used.

Class C210909 Simple Top

Class C210910 Simple Bottom

Class C210911 Simple 2 Piece Outfit Simple top with matching/coordinating simple bottom (pants, shorts or skirt)

Class C210912 Simple Dress

Class C210913 Other Simple Item Using skills learned in project manual. Examples: Apron, vest, etc.

Class C210914 Upcycled Simple Garment 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.

Class C210915 Upcycled Accessory 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.

STEAM Clothing: Beyond the Needle

4-H members must show their own original creativity.

A Design Data Card must be included with ALL Beyond the Needle Classes C221003-C221008. (see general Clothing Exhibit instructions)

Division 221

Classes 900-901 in this division are ineligible for State Fair.

Class C221900 Beginning Embellished Garment Create a garment using beginning techniques as designed in the project manual. Designs are the original idea of the 4-Her using the elements and principles of design to make an original statement.

Class C221901 Beginning Textile Clothing Accessory Accessory is constructed and/or decorated using techniques as defined in the project manual. <u>Examples Include</u>: Hats, bags, scarves, gloves, aprons, etc.

*Class C221001 Design Portfolio A portfolio consisting of at least three design samples or activities. Refer to the Beyond the Needle project manual for activity ideas. The Portfolio should be placed in an 8 ½" inches x 11" inches, 3 ring binder. Include an appropriate cover. (Additional pages can be added each year but should be dated.) See Pages 14-16 in the Beyond the Needle project manual for portfolio formatting.

*Class C221002 Color Wheel Create your own color wheel, complimentary color bar or color scheme using pages 27-39 in the Beyond the Needle project manual. The Exhibit may be a notebook, poster, or small display. Exhibits should not exceed 22" inches x 30" inches.

*Class C221003 Embellished Garment with Original Design Create a garment using techniques as defined in the Beyond the Needle project manual. Designs are the original idea of the 4-Her using the elements and principles of design to make an original statement. A design Data Card must be included with this project. If additional information is not included, exhibit will be lowered one ribbon placing. (Eligible for State Fair Fashion Show)

*Class C221004 Original Designed Fabric Yardage Fabric yardage is designed using techniques such as those found in the manual. Other embellishments may be added. Exhibit consists of at least one year of finished fabric. A design Data Card must be included with this project. If additional information is not included, exhibit will be lowered one ribbon placing.

*Class C221005 Item Constructed from Original Designed Fabric (garment or non-clothing item)
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. If additional information is not included, exhibit will be lowered one ribbon placing. (Only garments are eligible for State Fair Fashion Show)

*Class C221006 Textile Arts Garment or Accessory A garment or accessory constructed using new unconventional materials. <u>Examples</u>: Rubber bands, plastic, duct tape. A design Data Card must be included with this project. If additional information is not included, exhibit will be lowered one ribbon placing. (Only garment eligible for State Fair Fashion Show)

*Class C221007 Fashion Accessory An accessory designed and/or constructed using elements and principles of design; can be textile or non-textile based. <u>Example</u>: shoes, strung bracelet/necklace, wire wrapping scarves, flip flops, design on tennis shoes, etc. A design Data Card must be included with this project. If additional information is not included, exhibit will be lowered one ribbon placing.

*Class C221008 Wearable Technology Garment or Accessory Technology is integrated into the garment or accessory in some way (<u>For example</u>: LEDs charging capabilities, sensors, and etc.) A design Data Card must be included with this project. If additional information is not included, exhibit will be lowered one ribbon placing. (*Eligible for State Fair Fashion Show*)

STEAM Clothing 2: Simply Sewing

Exhibits in this project must reflect at least one new skill learned from this manual (See project manual skill-level list). 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.

Division 222

*Class C222001 Design Basics, Understanding Design Principles 4-H Members enrolled in STEAM Clothing 2 may enter an exhibit sharing a learning experience from pages 17-20 in the 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.

*Class C222002 Pressing Matters 4-H Members enrolled in STEAM Clothing 2 may enter a ham or sleeve roll from pages 21-25 "A Pressing Matter" in the STEAM Clothing 2 project manual. Exhibit should include answers to lesson questions that are most appropriate to include.

*Class C222003 Upcycled Garment 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 list of skills is available at https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. A Design Data Card must be included with this project (see general Clothing Exhibit instructions) including a "before" picture no larger than 4.25" inches x 5.5" inches. If additional information is not included, exhibit will be lowered one ribbon placing.

*Class C222004 Upcycled Clothing Accessory A wearable accessory made from a used item. The item used 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 list of skills is available at https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. A Design Data Card must be included with this project (see general Clothing Exhibit instructions) including a "before" picture no larger than 4.25" inches x 5.5" inches. If additional information is not included, exhibit will be lowered one ribbon placing.

*Class C222005 Textile Clothing Accessory 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://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. 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.)

- *Class C222006 Top (vest is acceptable)
- *Class C222007 Bottom (pants or shorts)
- *Class C222008 Skirt
- *Class C222009 Lined or Unlined Jacket or Vest
- *Class C222010 Dress (not formal wear) (Eligible for State Fair Fashion Show)
- *Class C222011 Romper or Jumpsuit (Eligible for State Fair Fashion Show)
- *Class C222012 Two-Piece Outfit (Eligible for State Fair Fashion Show)
- *Class C222013 Alter Your Pattern Garment constructed from a significantly altered pattern. Entry must include both the constructed garment and the altered pattern.
- Include information sheet that describes:
 - How the pattern was altered or changed
 - 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. (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e. Dress, Romper/Jumpsuit, or Two-piece Outfit)

*Class C222014 Garment Constructed from Sustainable or Unconventional (natural or synthetic) Fibers 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. (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e. Dress, Romper/Jumpsuit, or Two-piece Outfit)

STEAM Clothing 3: A Stitch Further

Exhibits entered in this project must reflect at least one new skill learned from this manual. (See project manual skill-level list). Garments as listed may be made from any pattern or any fabric and should demonstrate sewing skills beyond STEAM Clothing 2. Entry consists of complete constructed garments only. **Wool entries must have the fiber content listed on the identification label.**

Division 223

*Class C223001 Upcycled Garment 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 https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. A Design Data Card must be included with this project (see general Clothing Exhibit instructions) including a "before" picture no larger than 4.25" inches x 5.5" inches.

*Class C223002 Upcycled Clothing Accessory 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 https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. A Design Data Card must be included with this project (see general Clothing Exhibit instructions) including a "before" picture no larger than 4.25" inches x 5.5" inches.

*Class C223003 Textile Clothing Accessory 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 https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. Examples Include: Hats, bags, scarves, gloves. No metal, plastic, paper or rubber base items allowed (i.e. barrettes, headbands, flip flops, duct tape, etc.)

- *Class C223004 Dress or Formal (Eligible for State Fair Fashion Show)
- *Class C223005 Skirted Combination (Skirt with shirt, vest or jacket or jumper and shirt) (Eligible for State Fair Fashion Show)
- *Class C223006 Pants or Shorts Combination (Pants or shorts with shirt, vest or jacket) (Eligible for State Fair Fashion Show)
- *Class C223007 Romper or Jumpsuit (Eligible for State Fair Fashion Show)
- *Class C223008 Specialty Wear (Includes: Swim wear, costumes, hunting gear, or chaps) (Eligible for State Fair Fashion Show)
- *Class C223009 Lined or Unlined Jacket (non-tailored) (Eligible for State Fair Fashion Show)
- *Class C223010 Coat, Blazer, Suit Jacket or Outerwear A tailored blazer or suit jacket or coat. (Eligible for State Fair Fashion Show) Wool entries must have the fiber content listed on the identification label to be considered for the Make it With Wool Award.
- *Class C223011 Alter/Design Your Pattern Garment constructed from significantly altered pattern. Entry must include both the constructed garment and the altered pattern. Include information sheet that describes:
 - 1) How 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. (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e. Dress, Romper/Jumpsuit, or Two-piece Outfit)

*Class C223012 Garment Constructed from Sustainable or Unconventional (natural or synthetic) Fibers 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 unconventional items themselves should be exhibited under Beyond the Needle. (Eligible for State Fair Fashion Show, in the class that best describes the type of garment constructed i.e. Dress, Romper/Jumpsuit, or Two-piece Outfit)

Knitting

Criteria for judging knitting and crochet: Design and Color, Neatness, Knitting Mechanics, Trimmings, and Construction Finishes.

General Instructions: *Knitting*

General: Garments as listed may be made for self (4-H member) or another person. 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.

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 on every component of the exhibit using safety pins or by basting. Not responsible for unlabeled items.

Preparation of Exhibits: Knitted and Crocheted exhibits should be entered in the most appropriate manner for the exhibit.

Data Card For Knitting: 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:

- 1. Why did you choose to create this exhibit?
- 2. What steps did you take as you created this exhibit?
- 3. What were the most important things you learned?
- 4. Gauge-Number of rows per inch; number of stitches per inch
- 5. Size of needles, finger knitted, arm knitted, loom or machine knitted.
- 6. Kind of yarn-weight and fiber content.
- 7. Names of stitches used.

(a pre-printed data card can be found at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/)

Division 225

—Level One—

Classes 900 in this division is ineligible for State Fair

Class C225900 Level 1 Knitted Clothing or Home Environment Item Knitted item or garment using beginning stitches.

—Level Two—

*Class C225001 Level 2 Knitted Clothing 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 pattern. (Eligible for State Fair Fashion

*Class C225002 level 2 Knitted Home Environment Item 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. *Class C225003 Arm or Finger Knitted Item (Clothing or Home Environment Item)

*Class C225004 Loom Knitted Item (Clothing or Home Environment Item)

-Level Three-

*Class C225005 Level 3 Knitted Clothing Knitted item or garment 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. (Eligible for State Fair Fashion Show)

*Class C225006 Level 3 Knitted Home Environment Item Knitted item made by using stitches learned 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.

*Class C225007 Machine Knitting

Crochet

Criteria for judging knitting and crochet: Design and Color, Neatness, Crochet Mechanics, Trimmings, and Construction Finishes.

General Instructions: Crochet

<u>General</u>: Garments as listed may be made for self (4-H member) or another person. 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.

<u>Identification Labels</u>: 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 on every component of the exhibit using safety pins or by basting. Not responsible for unlabeled items.

<u>Preparation of Exhibits</u>: Knitted and Crocheted exhibits should be entered in the most appropriate manner for the exhibit.

<u>Data Card For Crochet</u>: Each crocheted exhibit must include the following information with entry tag or exhibit will be lowered one ribbon placing:

- 1. Why did you choose to create this exhibit?
- 2. What steps did you take as you created your exhibit?
- 3. What were the most important things you learned?
- 4. Gauge-Number of rows per inch; number of stitches per inch.
- 5. Size of hook or type of crochet tool.
- 6. Kind of yarn-weight and fiber content or other material used.
- 7. Names of stitches used.

(a pre-printed data card can be found at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/)

Division 226

-Level One-

Classes 900 in this division is ineligible for State Fair

Class C226900 Level 1 Crocheted Clothing or Home Environment Item Crocheted item or garment using beginning stitches.

-Level Two-

*Class C226001 Level 2 Crocheted Clothing Crocheted garment using basic stitches (including: chain, single, double, half-double, treble) to form patterns. (Eligible for State Fair Fashion Show)

*Class C226002 Level 2 Crocheted Home Environment Item Crocheted item using basic stitches (including: chain, single, double, half-double, treble) to form patterns.

-Level Three-

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

*Class C226004 Level 3 Crocheted Home Environment Item Crocheted item using stitches learned in Level 2 while advancing to use afghan stitch, broomstick lace, hairpin lace, design motifs, and multiple pattern stitches.

Weaving

Criteria for weaving: Design and Color, Neatness, Weaving Mechanics and Construction Finishes.

General Instructions: Weaving

<u>Information Sheet For Weaving</u>: Each woven exhibit must include the following information with entry tag or exhibit will be lowered one ribbon placing:

- 1. Why did you choose to create this exhibit?
- 2. What steps did you take as you created your exhibit?
- 3. What were the most important things you learned?
- 4. Type of loom used.
- 5. Kind of yarn—weight and fiber content or other material used.
- 6. Names of weave structures used.
- 7. Copy of directions.

Division 227

Classes in this division are ineligible for State Fair

-Level One-

Class C227900 Level 1 Woven Garment With plain or balanced weave using a rigid heddle loom. Examples: Scarf, shawl or belt.

-Level Two-

Class C227901 Level 2 Woven Garment Using basic weaving techniques and threading patterns with a four harness loom.

-Level Three-

Class C227902 Level 3 Woven Garment Using advanced weaving techniques and threading patterns with any loom. Examples: Lace, overshot or tapestry.

4-H Fashion Show

Projects: STEAM Clothing: Beyond the Needle, STEAM Clothing 1: Fundamentals, STEAM Clothing 2: Simply Sewing, STEAM Clothing 3: A Stitch Further, Knitting, Crocheting

General Instructions: 4-H Fashion Show

Modeled Garments: Garments should be age appropriate.

Entries NOT Accepted:

The following items can NOT be entered in the State Fair 4-H Fashion Show:

- 1. Textile clothing accessories.
- 2. Garments containing inappropriate language or images.

Fashion show contestants must be in the contest and the public fashion show to qualify for premiums and receive awards.

Division 228

—STEAM Clothing 1: Fundamentals Fashion Show—

4-H'ers who have enrolled in or completed STEAM Clothing 2 or 3 are not eligible.

Classes 900-909 in this division are ineligible for State Fair

If you plan to model Class C410904 (Simple Top) AND Class C410905 (Simple Bottom) we ask that you make your items MATCH/COORDINATE and enter them as Class C410906 (Simple 2 Piece Outfit).

Class C228900 Pincushion

Class C228901 Pillowcase

Class C228902 Simple Pillow

Class C228903 Bag/Purse

Class C228904 Simple Top

Class C228905 Simple Bottom Pants, shorts, or skirt.

Class C228906 Simple 2 Piece Outfit Simple top worn with a simple bottom (pants, shorts or skirt)

Class C228907 Simple Dress

Class C228908 Other Using skills learned in project manual.

Class C228909 Upcycled Simple Garment

Class C228910 Upcycled Accessory

—STEAM Clothing: Beyond the Needle Fashion Show— Classes 920-921 in this division are ineligible for State Fair

Class C228920 Beginning Embellished Garment Garment made with beginning techniques as defined in the project manual.

Class C228921 Beginning Textile Clothing Accessory Accessory constructed and/or decorated using techniques as defined in the project manual.

*Class C228010 Beyond the Needle Embellished Garment(s) with Original Design Garment is created using intermediate or advanced techniques as defined in the project manual. Designs are the original idea of the 4-H'er using the elements and principles of design to make an original statement.

*Class C228015 Beyond the Needle Garment Constructed From Original Designed Fabric Fabric yardage is designed first, then a garment is constructed from that fabric. Other embellishments may be added.

*Class C228020 Beyond the Needle Textile Arts Garment(s) Garment is constructed using new unconventional materials. Example: Rubber bands, plastic, duct tape.

*Class C228025 Beyond the Needle Wearable Technology Garment Garment has integrated technology into its design.

—STEAM Clothing 2: Simply Sewing Fashion Show— Classes 930-937 in this division are ineligible for State Fair

Class C228930 Level 2 Upcycled Garment

Class C228931 Level 2 Upcycled Clothing Accessory

Class C228932 Level 2 Textile Clothing Accessory

Class C228933 Top

Class C228934 Bottom Pants or Shorts

Class C228935 Skirt

Class C228936 Lined or Unlined Jacket

Class C228937 Other Garment or Outfit

*Class C228030 Constructed STEAM 2 Garment(s)

Possible types of garments include:

- Dress
- Romper or Jumpsuit
- Two-Piece Outfit Combination (skirt with top, vest, or lined/unlined jacket; jumper and top; pants or shorts outfit (pants or shorts with top, vest, lined/unlined jacket). Or a purchased top can be worn to complete a vest or lined/unlined jacket outfit with a constructed bottom.
- Upcycled Outfit Combination-must contain a complete constructed outfit (examples: if the top is upcycled, must include a constructed bottom, upcycled dress).

—STEAM Clothing 3: A Stitch Further Fashion Show— Classes 940-943 in this division are ineligible for State Fair

Class C228940 Level 3 Upcycled Garment

Class C228941 Level 3 Upcycled Clothing Accessory

Class C228942 Level 3 Textile Clothing Accessory

Class C228943 Other Garment or Outfit

*Class C228040 Constructed STEAM 3 Garment(s)

Possible types of garments include:

- Dress or Formal
- Skirted Outfit Combination (skirt with top, vest, or lined/unlined jacket OR jumper and shirt)
- Pants or Shorts Outfit Combination (pants or shorts with top, vest, or lined/unlined jacket)
- Romper or Jumpsuit
- Specialty Wear (for example: swim wear, costumes, western wear-chaps, chinks, riding attire or hunting gear)
- Non-Tailored Lined or Unlined Jacket or Coat—Additional pieces with jacket or coat may either be constructed or purchased
- Tailored Coat, Blazer, Suit Jacket or Outerwear—Additional pieces with coat, blazer, jacket or outerwear may either be constructed or purchased
- Upcycled Outfit Combination-must contain a complete constructed outfit (examples: if the top is upcycled, must include a constructed bottom, upcycled dress).

—Knitting or Crochet Fashion Show—

Classes 950-952 in this division are ineligible for State Fair

Class C228950 Knitted Clothing Item or Clothing Accessory (Level 1, 2 or 3)

Class C228951 Crocheted Clothing Item or Clothing Accessory (Level 1, 2 or 3)

Class C228952 Woven Clothing Item or Clothing Accessory (Level 1, 2 or 3)

*Class C228050 Knitted or Crocheted Clothing (Level 2 or 3)

Knitted garment using pattern stitches such as diamond, block, twist or seed/moss stitches or 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.

<u>Crocheted garment</u> using pattern stitches such as texture, shell, cluster or mesh stitches, or advance crochet stitches such as afghan, broomstick, hairpin lace, design motifs or pattern stitches. **Garment can be a sweater, cardigan, dress, coat, a top and bottom or a two piece ensemble.**

—Shopping in Style Fashion Show—

*Class C228060 Modeled Shopping in Style Purchased Outfit and Written Report Participants must be enrolled in the Shopping in Style 4-H project to enter. The curriculum is designed for youth ages 8 and older to help them strengthen their consumer skills when purchasing clothing. Participants must model a complete outfit. All pieces of the garment must be purchased.

Quilt Quest

General Instructions: Quilt Quest

<u>Beginning Quilters</u>: In Quilt Quest, 4-Hers 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, inner batting and the quilt bottom. Another person can do the quilting for them.

<u>Premier Class</u>: In this class the 4-Her has developed skills to be able to do all of the work by himself/herself. This included 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-Her 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.

<u>For All Classes</u>: 4-Hers can choose fabrics for the quilt by selecting fabric from fabric bolts. 4-Hers may also use "fabric collections" offered by manufacturers in a particular designer or fabric line.

Examples of Fabric Collections Include:

- **Jelly Rolls** are made of (up to) 40 different strips of 2 1/2" inches 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-Hers find it difficult to cut narrow strips with a rotary cutter and ruler, so this fabric selection may make it easier as they learn.
- Honey Buns are made like the Jelly Rolls with 1 ½" inch strips of fabrics.
- Layer Cakes are 10" inch squares of fabric from a manufactured designer of fabric line with different pieces of fabric "layered" on top of one another to look like a piece of cake.
- Charm Packs are made of 5" inch squares of coordinating fabric and may be tied up with a string or scrap of fabric.
- Candies are 2 ½" inch squares of fabric from a manufactured designer or fabric line.
- **Turnover** is a collection of coordinating fabrics that are cut into 6" inch triangles.
- Fat Quarters are ½ yard cuts of fabric which are cut in half to make a rectangle that is approximately 18" inches x 21" 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.
- 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 of the smaller squares, rectangles, etc. to make the quilt top according to the pattern directions.

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.

<u>Quilted Exhibit</u>: A quilted exhibit is made up of at least 3 layers. Quilts or quilted items must be quilted or tied through all layers.

Ineligible Exhibits: Fleece blankets are not eligible in this division.

<u>Identification Label</u>: Quilts must have a permanent label on the back in the bottom right corner with quilter's name and date of completion.

<u>Support Information</u>: All entry cards and support information must be attached using a safety pin. No straight pins.

Supporting Information Tags: Available at:

https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/ See example:

Home Environment Supporting Information					
Check elements and/or principles used in your exhibit					
Elei	nents of Design-The Building Blocks				
	Texture				
	Shape/FormLineSpace				
Prir	ciples of Design-Applying elements to				
	make a pleasing design				
	Rhythm/RepetitionBalance				
	_EmphasisUnityProportion				
Ste	s taken to complete this exhibit:				
(Us	back of card if needed)				

Division 229

*Class C229010 Exploring Quilts 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, and entrepreneurship. History may include history of an old quilt or history/research of a particular style of quilt such as Baltimore album quilts, Amish quilts, other. Exhibit may be a 14" inches x 22" inches 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.

*Class C229020 Quilt Designs Other Than Fabric Two or three dimensional item with quilt design made using medium other than fabric, such as stained glass, paper, etc. Supporting information is required for this exhibit. (see general Quilt Quest instructions) Information must also include elements or principles of design used and steps taken to complete project. Exhibits without supporting information will be dropped a ribbon placing.

*Class C229021 Barn Quilt (less than 4' feet x 4' feet) Supporting information is required for this exhibit. (see general Quilt Quest instructions) Information must also include elements of principles of design used and steps taken to complete project. Exhibits without supporting information will be dropped a ribbon placing.

*Class C229022 Barn Quilt (4' feet x 4' feet or larger) Supporting information is required for this exhibit. (see general Quilt Quest instructions) Information must also include elements of principles of design used and steps taken to complete project. Exhibits without supporting information will be dropped a ribbon placing.

*Class C229030 Computer Exploration Poster of notebook with a minimum of six computer generated quilt designs or color variations on a quilt design. Include information of 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 to the exhibit.

*Class C229040 Wearable Art Quilted clothing or clothing 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 $8 \frac{1}{2} \times 11$ inch paper, tell how you selected the design and fabrics including whether or not you used a kit, jelly roll, charm squares, etc.

*Class C229041 Inter-Generational Quilt A quilt made by a 4-H member and family members or friends of different generations. On a half-sheet of 8 $\frac{1}{2}$ " inch 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 or not you used a kit, jelly roll, charm squares etc.?
- c) What did you learn that you can use on your next project?

*Class C229042 Service Project Quilt A quilt constructed by a 4-H member or group to be donated to a worthy cause. On a half sheet of 8 ½" inch 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 or not you used a kit, jelly roll, charm squares, etc.?
- c) What did you do and what was done by others?
- d) What did you learn that you can use on your next project?

<u>Guidelines for Classes 50-83—Quilted Exhibits</u>: Please note the description of classes. They denote 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 ½" inch x 11" inch paper, include an explanation answering the following questions:
 - a) How did you select the design and fabrics including whether or not you used a kit, jelly roll, charm squares, etc.?
 - b) What did you do and what was done by others?
 - c) What did you learn that you can use on your next project?

Sizes of Quilted Exhibits:

- **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.
- **Medium:** Length + Width = 61" inches to 120" inches
- Large: Length + Width = over 120" inches

-Quilted Exhibits-

Classes 50-52. Pieced guilts made up of squares and/or rectangles.

- *Class C229050 Small
- *Class C229051 Medium
- *Class C229052 Large

In addition to any of the methods in classes 60-62, quilts may have triangles and/or may be embroidered.

- *Class C229060 Small
- *Class C229061 Medium
- *Class C229062 Large

In addition to any of the methods in classes 70-72, quilts may have curved piecing, appliqué, 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.

- *Class C229070 Small
- *Class C229071 Medium
- *Class C229072 Large

—Premiere Quilt—

Entire quilt in the sole work of the 4-H member, 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.

- *Class C229080 Hand Quilted
- *Class C229081 Sewing Machine Quilted
- *Class C229082 Long Arm Quilted Non-computerized/hand guided.
- *Class C229083 Long Arm Quilted Computerized.

Consumer Management

General Instructions: Shopping in Style

If exhibit is a poster it should be on 14" inches x 22" inches poster board. If a three-ring binder is used it should be $8 \frac{1}{2}$ " inches x 11" inches 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 QuickTime Player.

Shopping In Style Ages 8 and over

Division 240

- *Class C240001 Best Buy for Your Buck (For ages 8-13 as of January 1 of 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 for this class (see general information above). Do not include the Shopping In Style Fashion Show Information Sheet with your entry for this class. Although both entries do share some information, there are differences in content and format for this class.
 - Provide details about wardrobe inventory which indicates the following:
 - o 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 the garment you did, clothing budget, cost of garment and a 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, side, back views)
- * Class C240002 Best Buy for Your Buck (For ages 14-18 as of January 1 of 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 for this class (see general information above). Do not include the Shopping In Style Fashion Show Information Sheet with this entry. Although both entries do share some information, there are differences in content and format for this class.
 - Provide details listed for those ages 8-13 plus include the following additions:
 - o Body shape discussion
 - Construction quality details
 - o Design features that affected your selection
 - Cost per wearing
 - o Care of garment
 - Conclusion or summary statement(s) stating your final comments on why you selected your "best buy for your buck"
 - o Provide 3 color photos of you wearing the garment (front, side, back views)
- *Class C240003 Revive Your Wardrobe 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).
- *Class C240004 Show Me Your Colors 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).
- *Class C240005 Clothing First Aid Kit Refer to page 73 of the manual and complete a clothing first aid kit. Include a list of items in the kit and a brief discussion of why each item was included. Put in appropriately sized box or tote with a lid. No larger than a shoebox.

*Class C240006 Mix, Match, & Multiply 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 clothes line, 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).

My Financial Future

General Instructions: My Financial Future

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.

My Financial Future: Beginner/Intermediate

Division 247

*Class C247001 Three SMART Financial Goals Write 3 SMART financial goals for yourself (one should be short term, one intermediate, and one long term.) Explain how you intend to reach each goal you set. *Class C247002 Income Inventory 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.

*Class C247003 Tracking Expenses 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 a chart in your exhibit.

*Class C247004 Money Personality Profile Complete the money personality profile found on pages 21-22.

Answer the following questions:

- What is your money spending 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) you money personality profile with theirs.
- *Class C247005 What Does It Really Cost? Complete Activity 8 on pages 39-40.
- *Class C247006 My Work; My Future 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?

My Financial Future: Intermediate/Advanced

Division 247

*Class C247007 Interview Interview 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 you 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.

*Class C247008 The Cost of Not Banking Type your answers to the questions about Elliot on page 50. *Class C247009 Evaluating Investment Alternatives Complete the case study of Jorge on page 64. Answer all three questions found at the bottom of the page.

*Class C247010 Understanding Credit Scores 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

*Class C247011 You Be the Teacher 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.

Home Design & Restoration

Projects: Design My Place, Preserving Heirlooms, Design Decisions, Crafts

General Instructions: Home Design & Restoration

Home Design & Restoration Exhibits Are Evaluated By These Criteria:

- 1. Items must be designed to be used for home decorating, home furnishing or home management (no clothing, purses, note cards, scrapbooks/photo albums, etc.).
- 2. Accessories should be of high quality (as compared to quick, simple crafts), suitable for use in the home several months throughout the year. Holiday-specific items are discouraged. Exhibits made from kits are also discouraged as kits limit decision making in the design process.
- 3. 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. Information on the elements and principles of design may be found in the Design Decisions manual, as well as Portfolio Pathways and Sketchbook Crossroads.
- 4. Entered in the correct class: What was changed or manipulated? What medium is the majority of your accessory made from?
- 5. Items should be ready for display in the home: pictures framed, wall hangings and pictures ready to hang, etc. No single matboard 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 not ready for display will be dropped one ribbon placing.
- 6. All static exhibits must have received a purple ribbon at the county fair to advance to state fair.
- 7. Items should *not* be 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 not state fair eligible.

<u>Exhibit Size</u>: Exhibits may be no taller than 7 feet and no wider than 6 feet. All exhibits must be able to be easily lifted by two 4-H Staff. Large exhibits qualifying for State Fair may not be transported to Grand Island upon the discretion of Extension Staff.

<u>Identification</u>: A label with the exhibitor's name and county should be attached to each separate piece of the exhibit.

<u>Supporting Information</u>: Supporting information is required for <u>ALL</u> exhibits. Information must include the elements and principles of design used and steps taken to complete project. <u>Supporting information tags can be found at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/ <u>See example below</u>. Exhibits without supporting information will be dropped a ribbon placing.</u>



Design My Place

<u>Division 251</u> Supporting information tag required for ALL classes in this division

Classes in this division are ineligible for State Fair

Class C251900 Needlework Item (made with yarn or floss).

Class C251901 Simple Fabric Accessory (Examples: Table runner, place mats, wall hanging, etc.).

Class C251902 Accessory made with Original Batik or Tie Dye

Class C251903 Simple Accessory made using Wood

Class C251904 Simple Accessory made using Plastic

Class C251905 Simple Accessory made using Glass

Class C251906 Simple Accessory made using Clay

Class C251907 Simple Accessory made using Paper

Class C251908 Simple Accessory made using Metal Tooling or Metal Punch

Class C251909 Storage Item Made or Recycled

Class C251910 Bulletin or Message Board

Class C251911 Problem Solved Using a creative method to show you solved a problem (air quality, water, sound, temperature, lighting, fire escape plan, etc.).

Class C251912 Video Show how to make a bed, organize a room, or the steps you used to make a simple accessory.

Class C251913 Other Item Using skills learned in the Design My Place project

Preserving Heirlooms

General Instructions: Preserving Heirlooms

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 will not be displayed in closed cases.

Attach Information Including:

- 1. List steps taken to complete your project. Before and after pictures are encouraged.
- 2. 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.

Division 256 Supporting information tag required for ALL classes in this division

*Class C256001 Trunks Including doll-sized trunks or wardrobes.

*Class C256002 An Article Either a repurposed 'treasure' (accessory) from an old item or 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.

*Class C256003 Furniture Either a repurposed 'treasure' from an old item or an old 'treasure' refinished or renovated. May include doll-sized furniture.

*Class C256004 Cleaned and Restored Heirloom Accessory or Furniture A reconditioned and cleaned old piece of furniture or accessory that is functional for use or display. Item might 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. this publication can be found in the Digital Commons at: https://go.unl.edu/gcnh (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.

Class 900 in this division is ineligible for State Fair

Class C256900 Other Item Using skills learned in the Preserving Heirlooms project.

Design Decisions

Use techniques from manual or comparable techniques. Attach information to explain steps taken. Information must also include element or principle of design used (p. 8-9).

Division 257 Supporting information tag required for ALL classes in this division

- *Class C257001 Design Board for a Room 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.
- *Class C257002 Problem Solved Energy Savers Or Career Exploration Identify a problem (as problem windows, 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)
- *Class C257003 Solar, Wind or Other Energy Alternatives for the Home Can be models, either an original creation or an adaption of kit. If kit, label and explain what was learned and how the item could be used in or on exterior of home.
- *Class C257004 Technology in Design Incorporate technology into a project related to home environment; for example, using conductive thread to create a circuit that enhances a wall hanging.
- *Class C257006 Window Covering May include curtains, draperies, shades, shutters, etc.
- *Class C257007 Floor Covering May be woven, braided, painted floor cloth, etc.
- *Class C257008 Bedcover May include quilt, comforter, bedspread, dust ruffle, pillow sham, canopy, etc. For quilts, state who did the quilting. (No fleece tied exhibits.)
- *Class C257009 Accessory—Original Needlework/Stitchery
- *Class C257010 Accessory—Textile—2D Table cloth or runner, dresser scarf, wall hanging, etc. (No tied fleece blankets or beginning/10 minute table runners.)
- *Class C257011 Accessory—Textile—3D Pillows, pillow shams, fabric bowls, etc. (No fleece tied exhibits)
- *Class C257012 Accessory—2D
- *Class C257013 Accessory—3D String art, wreaths, etc.
- *Class C257014 Accessory—Original Floral Design
- *Class C257015 Accessory—Original made from Wood Burn, cut, shape or otherwise manipulate.
- *Class C257016 Accessory—Original made from Glass Etch, mosaic, stain, molten or otherwise manipulate.
- *Class C257017 Accessory—Original made from Metal Cut, shape, punch, sculpt, reassemble or otherwise manipulate.
- *Class C257018 Accessory—Original made from Ceramic or Tile Treatment to exhibit must go through process that permanently alters the medium. Painting alone is not sufficient.
- *Class C257019 Accessory—Recycled/Upcycled Item for the Home Reuse a common object or material in a creative way. Include description of what was done to recycle or reuse item in your attached information.
- *Class C257020 Furniture-Recycled/Remade Made or finished by using a common object or material in a creative way. Include description of what was done to recycle or reuse item in your attached information.
- *Class C257021 Furniture—Wood Opaque Finish Such as paint or enamel.
- *Class C257022 Furniture—Wood Clear Finish Showing wood grain.
- *Class C257023 Furniture—Fabric Covered May include stool, chair seat, slip-covers, headboard, etc.
- *Class C257024 Furniture—Outdoor Living Furniture made/refurbished by suitable for outdoor use. Include description of what was done to recycle or reuse item in your attached information. (NOTE: May be displayed outside at State Fair.)
- *Class C257025 Accessory—Outdoor Living Accessory made/refurbished by 4-H member suitable for outdoor use. Include description of what was done to recycle or reuse item in your attached information.

Class 900 in this division is ineligible for State Fair

Class C257900 Other Item Using skills learned in the Design Decisions project.

Crafts

<u>Division 258</u> Supporting information tag required for ALL classes in this division

Classes in this division are ineligible for State Fair

Class C258900 Rubber Stamping Any item decorated using rubber stamps.

Class C258901 Scrap Booking A complete scrapbook or creative craft item using scrap booking techniques.

Class C258902 Stained Glass

Class C258903 Card Making Exhibit two (2) cards (theme of your choice) with envelopes; each card made with a different technique.

Class C258904 Ceramics

Class C258905 Paper Craft Any type of craft made entirely out of paper.

Class C258906 Stepping Stone or Decorative Garden Item

Class C258907 Hand Crafted Jewelry

Class C258908 Miscellaneous Craft

Class C258909 Pinterest Exhibit Inspiration must come from a post in Pinterest. Include a copy of the instructions found on Pinterest and, on a 4" inch x 6" inch card list 3 things you learned in the construction of the exhibit.

Visual Arts

Projects: Sketchbook Crossroads, Portfolio Pathways

General Instructions: Visual Arts

Visual Art Supporting Information

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.

- 1. <u>Original Work</u>: 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 buy 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.
- 4. <u>Supporting Information</u>: 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. <u>Supporting information tag templates can be found at: https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/. <u>See example below</u>. Exhibits with missing or incomplete supporting information will be dropped a ribbon placing.</u>
- 5. <u>Class Changes</u>: Exhibits must be entered in the appropriate class based on the medium(s) used or theme. No class changes will be made after check-in. Exhibits in inappropriate classes may be dropped a ribbon placing. Supporting information may provide evidence or justification for the piece being entered in a specific class.

(updated 2023)			
Name	Age	County	
Class	Artwork Ti	Title	
Reflection 1. Discuss your use of the did you focus on while plan		ples in this piece. Which specific elements and/or principhis piece? Why?	oles
		references for your artwork, such as other artwork, refere s unique and original, rather than copying other's ideas	
Process – Outline your creunique materials, tools, or	•	he steps you took to complete this piece. Include specia	ıl or

Visual Art Mediums

<u>Division 260</u> Supporting information tag required for ALL classes in this division

- *Class C260001 Original Acrylic Painting
- *Class C260002 Original Oil Painting
- *Class C260003 Original Watercolor Painting
- *Class C260004 Original Pencil Drawing
- *Class C260005 Original Charcoal Drawing
- *Class C260006 Original Ink Drawing
- *Class C260007 Original Fiber Art Could include weaved art, dyed fabric, felted wool, cotton linter, batik, etc.
- *Class C260008 Original Sculpture Could include Styrofoam, wood, cardboard, paper, metal, wire, etc.
- *Class C260009 Original Ceramic Pottery 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.
- *Class C260010 Original Painting on Purchased Ceramic Surface No hand-built or wheel thrown pottery. May be functional or non-functional. Could include figurines, cups, bowls, etc.
- *Class C260011 Original Single Media Not Listed Could include digital art, leathercrafting, printmaking, stained glass, pastels, scratchboard, sandpainting, encaustic painting, chalk, etc.
- *Class C260012 Original Mixed Media Could include any combination of two or more other mediums or materials.

Visual Art Themes

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.

Division 261 Supporting information tag required for ALL classes in this division

- *Class C261001 Original Art Inspired by Plants or Animals Could involve but is not limited to domestic animals, pets, agriculture, wild animals, wildlife conservation, house plants, fruit, vegetables, flowers, native plants, trees, etc.
- *Class C261002 Original Art Inspired by Landscapes 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.
- *Class C261003 Original Art Inspired by People Could involve but is not limited to cultural art, modern society, portraits, daily life, careers, families, emotions, etc.
- *Class C261004 Original Art Inspired by Artist's Choice Could involve but is not limited to food, cars, fantasy worlds, imaginary characters, science-fiction, history, etc.

DEPARTMENT D: ENVIRONMENTAL EDUCATION & EARTH SCIENCES

Forestry

Projects: Tree Identification

General Instructions: Forestry

<u>Display Boards</u>: Display boards must be made from wood or wood composite, e.g. plywood, fiberboard or masonite, 1/4" inch to 1/2" inch thick and no larger than 24" inches x 24" inches. Display boards must be coated, e.g. painted or varnished, on both sides to prevent warping.

<u>Display Posters</u>: 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.

<u>Display Books</u>: Display books must measure no more than 16" inches x 16" inches.

<u>Samples</u>: At least 5 of the 10 samples in Classes 2, 3, 4 and 5 must be from the list of 60 species described in 4H332 Tree Identification. Samples must be from 10 different tree species. <u>For Example</u>: 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.

<u>Emerald Ash Borer</u>: Due to the 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 of the project being disqualified.

<u>Labeling</u>: Remember that other general labeling standards apply. For example, scientific names are <u>always</u> 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 <u>complete</u> 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.

Division 320

*Class D320001 Design Your Own Exhibit Prepare an educational exhibit about some aspect of trees, forests, or forestry that it of special interest to you. Possible topics include paper recycling, forest fire, forest products, forest wildlife, or forest pests. The only requirement is that the display must be no larger than 24" inches by 24" inches by 24" inches. Photographs, drawings, samples, charts, posters, etc. can be used, but include enough information to adequately explain the topic. Your display should be substantially different from other display classes. Be as creative as you like.

*Class D320002 Leaf Display 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.

<u>Collection</u>: Whenever possible, collect leaves from mature trees. Collect leaves any time after they have reached full size, usually beginning in early summer. Leaf samples should be in good condition, 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 the exhibitor.

<u>Mounting</u>: Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, e.g. wire, glue, tape, staples, plastic bags, but be sure all their features can be clearly identified.

<u>Labeling</u>: 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, including county and other relevant information)

If a twig is included with a sample, indicate "twig included" on the label. <u>For Example</u>: The twig may be included with an eastern red cedar sample because the leaves are very small and difficult to remove from the twig.

<u>Supplemental Information</u>: e.g. general uses, common products, fall color, etc., may be included with the display to enhance its educational value.

*Class D320003 Twig Display 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.

<u>Collection</u>: Twig samples should be collected during the dormant season (November-April) when 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. <u>Mounting</u>: 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 features can be clearly identified. The non-terminal end must be cut at a slant so the pith can be seen.

<u>Labeling</u>: 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)

<u>Supplemental Information</u>: e.g. general uses, tree characteristics, etc., may be included with the display to enhance its educational value.

*Class D320004 Seed Display The seed display must include seed samples from at least 10 different tree species.

<u>Collection</u>: Tree seeds should be collected at the time of year when they mature, which varies widely depending upon tree species. <u>For Example</u>: 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. <u>For Example</u>: The seed of honey locust 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.

<u>Mounting</u>: 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)

Other Supporting Information: e.g. maturity date, average number of seed in the fruit, etc., may be included to enhance educational value.

*Class D320005 Wood Display The wood display must include wood from at least 10 different tree species.

<u>Preparation</u>: 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 by 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.

<u>Mounting</u>: 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
- 6. Collection location (be specific, state and county at a minimum)

<u>Supplemental Information</u>: e.g. common products, wood density, etc., may be included to enhance educational value.

*Class D320006 Cross Section Display Display 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"-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.

<u>Labeling</u>: The following parts must be clearly and accurately labeled on the cross section with pins, paper tags, or some other form of identification:

- a) Pith
- b) Heartwood
- c) Sapwood
- d) One growth ring (beginning and end)
- e) Cambium
- f) 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 a minimum)

*Class D320007 Parts of a Tree 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:

- a) Trunk
- b) Crown
- c) Roots
- d) Leaves
- e) Flowers
- f) Fruit
- g) Buds
- h) Bark

Identifying other internal parts, e.g. phloem, xylem, cambium, annual ring, pith, etc., is optional. Attach a separate label on the back of the poster that includes the exhibitor's name and age.

*Class D320008 Living Tree Display Display a living tree seedling grown by the exhibitor from seed in the display container. The seed must be from a species listed in 4H 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 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.

<u>Supplemental Information About The Tree</u>: 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.

*Class D320009 Forest Product Display 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 by 22" inches by 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 form 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 test. Cite sources of information.
- Personal interviews with industry professionals are encouraged as a source of information.

*Class D320010 Forest Health Display 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 by 24" inches by 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.

*Class D320011 Wildfire Prevention Poster 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.

*Class D320012 Sustainable Landscape Diorama 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 test. Cite sources of information.

*Class D320013 Tree Planting Project Display 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 form necessary authorities and property owners before planting any trees.

- <u>Labeling</u>: The following information about the tree must be included in the display:
 - o Common name
 - o Scientific name
 - Planting location
 - o Planting date
 - o Tree source
 - o Planter's name
 - o Proper tree planting steps
 - 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 the educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of test. Cite sources of information.

Range Management

Projects: Reading the Range, Using Nebraska Ranges

General Instructions: Range Management

<u>Purpose</u>: 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. General Information:

- Each exhibit must be properly identified with unit and class.
- All plant displays and display covers must be the result of the current year's work.
- 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).
- 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.
- For guidelines on specific projects, refer to appropriate project manuals.

Division 330

-Range Books-

- A. 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.
- B. Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness and conformation to project requirements.
- C. <u>Each Completed Mount Must Have The Following Information (See Example Below) in the Lower Right Corner of the Mounting Sheet:</u>
 - 1. Scientific name (in italic or underlined), with authority
 - 2. Common name
 - 3. County of collection
 - 4. Collection date
 - 5. Collector's name
 - 6. Personal collection number, indicating order that plants were collected in your personal collection
 - 7. Other information, depending on class selected, l.e., value and importance, life span, growth season, origin, major types of range plants

This information should be typed or printed neatly. See example below.

Scientific name: Schizachyrim scoparium (Michx.) Nash

Common name: Little bluestem
County of collection: Hall County
Collection date: 6 August 2016
Collector's name: Joe Smith
Personal collection number: 37

Value and Importance: Livestock Forage: High, Wildlife Habitat: High, Wildlife Food: Medium OR Life Span: Perennial OR Season of Growth: Warm Season OR Origin: Native

- *Class D330001 Value & Importance for Livestock Forage & Wildlife Habitat & Food Book 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.
- *Class D330002 Life Span Book A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.
- *Class D330003 Growth Season Book A collection of 6 cool-season grass mounts and 6 warm-season grasses.
- *Class D330004 Origin Book A collection of plant mounts of 6 native range grass mounts and 6 introduced grasses. Introduced grasses are not from North America and often used to seed pastures.
- *Class D330005 Major Types of Range Plants Book A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like, and 3 shrubs.
- *Class D330006 Range Plant Collection Book 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.

-Range Display-

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.

*Class D330007 Parts of a Range Plant Poster Mount a range plant on a poster board. Label all the plant parts. Include the plant label in the lower right hand corner, including the scientific and common name of the plant. Put your name and 4-H county on the back of the poster.

-Range Boards

Boards should be no larger than 30" inches wide by 36" inches tall. Boards should be adequately labeled.

*Class D330008 Special Study Board A display of the results of a clipping study, a degree of use study or a range site study, etc. A short essay must accompany the display to explain the reason for the study, what was learned and study results and should be placed in a sheet cover attached to the board.

*Class D330009 Junior Rancher Board 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.

Conservation, Wildlife & Shooting Sports

General Instructions: Conservation, Wildlife & Shooting Sports

<u>Show What You Did and Learned</u>: All exhibitors must show evidence of personal field experiences, study or observations that relate to their exhibit. This helps judges to understand what the 4-H'er did and learned in the process that led to their exhibit.

<u>Proper Credit</u>: Show proper credit by listing the sources of plans or other supporting information used in exhibits.

NO FIREARMS, ITEMS WITH A BLADE: (broad heads, knives, saws, etc.) or related items of any other kind, may be exhibited. This applies to actual items, replicated items and item parts. Shooting sports accessories are permissible.

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

<u>Label Exhibit</u>: The exhibitor's name, county and age must be on the back or bottom of all displays. <u>Wildlife & Wildlife Laws</u>: '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.

<u>Board and Poster Exhibits</u>: Mount all board exhibits on 1/4" 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" inches x 28" inches), but half size (22" inches x 14" inches) is recommended.

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

Wildlife and How They Live

Projects: Wildlife Conservation 1, Wildlife Conservation 2, Wildlife Conservation 3, Amphibians, Bird Behavior, Fishing for Adventure 1, Fishing for Adventure 2, Fishing for Adventure 3

Division 340

<u>Instructions for Classes 1-4</u>: 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 the General Rules for this area.

<u>Examples for Classes 1-4</u>: 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.

- *Class D340001 Mammal Display
- *Class D340002 Bird Display
- *Class D340003 Fish Display
- *Class D340004 Reptile or Amphibian Display

*Class D340005 Wildlife Connections 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.

*Class D34006 Wildlife Tracks 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.

- 1. 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.
- 2. Option 2 should show more than one plaster-of-paris track 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.
- 3. Option 3 should show two tracks and include the animal's habitat needs including preferred food, shelter, water, and space in addition to a picture or illustration of the animal.

*Class D340007 Wildlife Knowledge Check Use electrical circuits, pictures, or other methods of teaching wildlife identification or other wildlife related knowledge. Plan size and shape to fit transportation and display; maximum size 24" inches x 24" inches.

*Class D340008 Wildlife Diorama 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 5 kinds of wildlife in their proper habitats.

*Class D340009 Wildlife Essay Learn how to share educational information by writing. Choose a conservation of wildlife topic that interests you and write an essay about it. <a href="Example: 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.

<u>Essay Information</u>: The essay is between 100 and 1000 words long and typed, double spaced on (8 1/2" inches x 11" inches) paper. You might use books, magazines, or personal interviews as resources, but you must give credit to all sources by listing them.

*Class D340010 Wildlife Values Scrapbook Make a scrapbook about the various values of wildlife. This would include aesthetic, scientific, commercial, game, genetic, and/or ecological. One resource would be 4H125 Wildlife Conservation project booklet.

*Class D340011 Wildlife Arts 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).

Outdoor Adventures

Projects: Outdoor Skills; Outdoor 1: Hiking Trails; Outdoor 2: Camping Adventures; Outdoor 3: Backpacking Expeditions

Division 341

-Outdoor 1: Hiking Trails-

Classes in this level are ineligible for State Fair

Class D341900 Poster 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

Class D341901 Journal/Binder Written report of actual, virtual or imagined trail(s) hiked with observations, OR field journal (notes of actual experiences, sights, sounds, smells, etc.), OR camping drip diary. Feathers/leaf/flower pressings must be securely attached in included. Photos or drawings of observations encouraged.

Class D341902 Hiking Safety Must include explanation of use of item, why selected/purpose of item and how it meets hiking needs. May include, but not limited to, on of the following:

- · Compact hiking safety kit
- Homemade compass
- Homemade water purifier

Class D341903 Hiking Adventure Game 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.

Class D341904 Other Hiking Item(s) 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).

-Outdoor 2: Camping Adventures-

*Class D341001 Poster Topics may include, but are 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
- Use of GPS

*Class D341002 Journal/Binder Written report of actual, virtual or imagined 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. Exhibits measure no larger than 16" inches x 16" inches.

*Class D341003 Camping/Hiking Safety 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;

- Trave sized poisonous plant guide
- Camping first aid kit
- Weather/water safety or hand hygiene kit

*Class D341004 Digital Media Use digital media to show video/slideshow/presentation of setting up a tent(include why site is chosen) or protection 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.

*Class D341005 Other Camping Items 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
- Knot display

-Outdoor 3: Backpacking Expeditions-

*Class D341006 Poster Topics may include but are 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
- Using GPS/compass

*Class D341007 Journal/Binder 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". Exhibits measure no larger than 16" inches x 16" inches.

*Class D341008 Expedition Safety Must include 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 guide
- Creepy crawly guide
- Tent repair kit
- Travel first aid kit
- Weather/water safety

*Class D341009 Digital Media 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
- 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.

DEPARTMENT D—DIVISION 341 CONTINUED

*Class D341010 Other Expedition Items 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)

Exhibits measure no larger than 18" inches x 24" inches.

Wildlife Habitat

Projects: Wildlife Habitat Evaluation

Division 342

*Class D342001 Houses Make a house for wildlife. <u>Examples</u>: Bird house (bluebird, purple martin, wood duck, kestrel, barn owl, etc.) or bat house; no insect house. 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.

*Class D342002 Feeders/Waterers Make a bird bath or feeder. <u>Examples</u>: Seed, suet, or nectar feeders. Squirrel feeder okay, no insect feeders. Indicate the kinds of animal(s) for which the feeder or waterer is intended, make the feeder or waterer functional so that it fits wildlife needs. Include The Following Information:

- 1. The kinds of animal(s) for which the water/feeder is intended
- 2. Where the water/feeder should be located for best use
- 3. Any seasonal maintenance needed
- 4. Any evidence of your person observations or experiences

Tips: Check NebGuide on feeding birds.

*Class D342003 Wildlife Habitat Design Board or poster exhibit. 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.

Harvesting Equipment

Projects: Fishing for Adventure 1 Fishing for Adventure 2, Fishing for Adventure 3, Shooting Sports

Division 343

*Class D343001 Fish Harvesting Equipment 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 of where each item is used in relation to other equipment
- 3. Any personal experiences you've had with the item(s)

*Class D343002 Build a Fishing Rod 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
- 2. Where materials/components were purchased
- 3. Number of hours required for construction

Identify All Parts: Necessary components which must be included are:

- Grip
- 2. Line Guides (based on manufacturers specifications)
- 3. Guide wraps
- 4. 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. Exhibit will be judged on: workmanship, labeling of parts, information, and neatness.

*Class D343003 Casting Target Make a casting target for exhibit and use. Target must be under 48" x 48". The bullseyes must be 2 feet, outer band must be 1 foot in diameter and 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.

*Class D343004 Wildlife Harvesting Equipment 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 drawings or pictures. Label all items displayed:

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

*Class D343005 Inventing Wildlife/Fish Harvesting Equipment, Aid or Accessory Use engineering principles to invent or adapt equipment that helps you harvest fish or wildlife. This could include 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 adjustments you made.

Taxidermy

Division 346

*Class D346001 Tanned Hides 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 Instructions for Conservation, Wildlife & Shooting Sports. Include the animal's name and the following information:

- Information about the exhibitor's personal field experiences, study, OR observations that relate to the exhibit.
- *Class D346002 Taxidermy 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 Instructions for Conservation, Wildlife & Shooting Sports. Include the animal's name and the following information:
 - Information about the exhibitor's personal field experiences, study, OR observations that relate to the exhibit.

Shooting Sports

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, blackpowder/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.

Division 347

*Class D347001 Shooting Aid or Accessory Any item which helps the shooter/hunter better perform their sport. Examples Include: 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.

*Class D347002 Storage Case An item with the purpose to safely hold a firearm, bow, ammunition, and/or arrows. Examples Include: Soft sided shotgun case, quivers, firearm safe. Include your design, or plans you adapted. Explain how the storage case is used.

*Class D347003 Practice Game or Activity Invent or adapt an activity to practice or teach a project skill. Include pictures of youth playing the game, testimonials from 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.

*Class D347004 Science, Engineering, Technology Advancements of Shooting Sports, Conservation, or Wildlife (Essay or Display) 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" inches x 11" inches paper.

*Class D347005 Healthy Lifestyles Plan 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 adaptions or improvements made while following the plan.

*Class D347006 Citizenship/Leadership Project 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 Conservation or Wildlife. Examples Include: 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.

*Class D347007 Career Development/College Essay, Interview or Display 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.

*Class D347008 Community Vitality Display Explore the difference shooting sports, conservation, fishing, and hunting make in keeping Nebraska vibrant especially in rural areas. Present facts and research in an interesting way for the public to learn from.

*Class D347009 Ag Literacy-Value Added Agriculture Interview or Research Project 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.

—Shooting Sports Educational Display— Classes 901-905 in this division are ineligible for State Fair

<u>Information for Classes 901-905</u>: Poster or display concerning the Shooting Sports project. Must be mounted on 1/4" inch or 3/8" inch thick plywood, masonite, or similar panel, 24" inches x 24" inches. Display may be three-dimensional, not to exceed 2" from face of poster. Display may include safety, building or using equipment, or any aspect of shooting sports.

Class D347901 Archery
Class D347902 Rifle –or- BB –or- Airgun
Class D347903 Shot Gun
Class D347904 Muzzleloading
Class D347905 Pistol

Other Natural Resources

Projects: Wildlife Conservation 1 Wildlife Conservation 2, Wildlife Conservation 3, Amphibians, Bird Behavior, Fishing for Adventure 1, Fishing for Adventure 2, Fishing for Adventure 3, Wildlife Habitat Evaluation, Shooting Sports, Environment 1, Environment 2, Environment 3, Geology, Outdoor 1-Hiking Trails, Outdoor 2-Camping Adventures, Outdoor 3-Backpaking Expeditions, Outdoor Skills

Division 361

*Class D361001 Design Your Own Exhibit in Natural Resources, Conservation, Geology or Ecology This class is for educational exhibits about natural resources, conservation, wildlife, or ecology 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 (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.

DEPARTMENT E: HEALTHY LIFESTYLE EDUCATION

Food and Nutrition

General Instructions: Food and Nutrition

<u>General Information</u>: Members may exhibit only in the project in which enrolled. Baked products entered at county fair may not be entered at State Fair. Products should be baked the day before entry day or as designated by county.

<u>Criteria for Judging</u>: Make sure to follow all entry instructions required for your exhibit. Incomplete exhibits will be lowered a ribbon placing.

<u>Commercial Mixes</u>: 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 categories will be lowered a ribbon placing.

<u>Food Projects</u>: Exhibits should be entered using a disposable pan or plate and covered by a plastic self-sealing bag. The Fair Board is not responsible for non-disposable containers, lost bread boards, china or glassware.

<u>Disqualification</u>: Any ingredient that the 4-H member cannot legally purchase, such as beer, whiskey, rum, etc. may not be used in any recipe or foods exhibit. Exhibits that include alcohol in the recipe will be disqualified. This also includes menu and recipe file exhibits.

<u>Food Safety</u>: 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 filings 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 in considered safe and will be accepted)
- Uncooked fruit toppings (i.e., fresh fruit tart)

<u>Entries per Individual</u>: One entry per exhibitor per class. Limit of six (6) entries per exhibitor (Three (3) in General Foods and Nutrition, and three (3) per exhibitor in Food Preservation).

<u>Supporting Information</u>: Each exhibit must include the recipe. Recipe may be handwritten, photocopied or typed. Place the food on the appropriate size plate or container and put in a self-sealing bag. Attach entry tag and recipe at the corner of the bag (outside). 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 the 4-H'ers name and county.

Recipe Card Template available at:

https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/

This card may be used, or you may use a recipe card/sheet of your choosing.

	4-H Youth Recipe Card	i i	
Exhibitor's Name:		Age:	
County:			
Recipe Title:			
Ingredients & Instructions:			
		0.90	
			(continue on back)

General Foods

Division 350

*Class E350001 Food Science Explorations 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 binder, an exhibit display, a written report in portfolio or notebook. Consider neatness and creativity.

*Class E350002 Foods and Nutrition Poster, Scrapbook, or Photo Display 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 reports to highlight the concept. 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 portfolio or notebook. Consider neatness and creativity.

*Class E350003 Physical Activity and Health Poster, Scrapbook, or Photo Display The project should involve 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 reports to highlight the concept. 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 portfolio or notebook. Consider neatness and creativity.

*Class E350004 Cooking Basics Recipe File 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.

Cooking 101

Division 401 Recipe card required for ALL classes in this division

Classes in this division are ineligible for State Fair

Class E401900 Cookies (any recipe) Four on a paper plate.

Class E401901 Muffins (any recipe) Four on a paper plate.

Class E401902 No Bake Cookie (any recipe) 4 on a paper plate.

Class E401903 Cereal Bar Cookie (any cereal based recipe made in pan and cut into bars or squares for serving.)

Class E401904 Granola Bar (any recipe) Four on a paper plate.

Class E401905 Brownies (any recipe) 4 on a paper plate.

Class E401906 Snack Mix (any recipe, at least 1 cup in self-sealing plastic bag)

Cooking 201

Division 410 Recipe card required for ALL classes in this division

*Class E410001 Loaf Quick Bread Any recipe, at least ¾ 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 ½" inches x 4 ½" inches or 9" inches x 5" inches. If mini-loaf pans are used for exhibit, two loaves must be presented for judging.

*Class E410002 Creative Mixes Any recipe, at least ¾ of baked product or 4 muffins or cookies on a paper plate. May be baked 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 breads 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?

*Class E410003 Biscuits or Scones 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.

*Class E410004 Healthy Baked Product Any recipe, at least ¾ 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.).

*Class E410005 Coffee Cake Any recipe or shape, non-yeast product-at least ¾ of baked product on a paper plate or in a disposable pan. Include menu for a complete meal where this recipe is served, following meal planning guidelines suggested in Cooking 201.

*Class E410006 Baking With Whole Grains Any recipe, at least ¾ 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.)

*Class E410007 Non-Traditional Baked Product 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 ¾ 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 method and how it compares with traditional method.

Cooking 301

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.

Division 411 Recipe card required for ALL classes in this division

*Class E411001 White Bread Any yeast recipe, at least ¾ of a standard loaf displayed on a paper plate. *Class E411002 Whole Wheat or Mixed Grain Bread Any yeast recipe, at least ¾ of a standard loaf displayed on a paper plate.

*Class E411003 Specialty Rolls Any yeast recipe, 4 rolls on a paper plate. May be sweet rolls, English muffins, kolaches, bagels, or any other sweet roll recipe that makes individual portions.

*Class E411004 Dinner Rolls Any yeast recipe, 4 rolls on a paper plate. May be clover leaf, crescent, knot, bun, bread sticks, or any other type of dinner roll.

*Class E411005 Specialty Bread Any yeast recipe, includes tea rings, braids, or any other full-sized specialty bread products. Must exhibit at least ¾ of a full sized baked product.

*Class E411006 Shortened Cake At least ¾ 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.)

Cooking 401

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.

Division 412 Recipe card required for ALL classes in this division

*Class E412001 Double Crust Pie Made with homemade fruit filling. *No egg pastries or cream fillings*. No canned fillings or pre-made pie crusts allowed. May be a double crust, crumb, cut out or lattice topping. Using an 8 or 9-inch disposable pie pan is recommended.

*Class E412002 Family Food Traditions Any recipe, at least 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.

*Class E412003 Ethnic Food Exhibit Any recipe, at least 3/4 of baked product or 4 muffins or cookies on a paper plate. May be baked 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.

*Class E412004 Candy Any recipe, 4 pieces of candy on a paper plate or ½ 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

*Class E412005 Foam Cake Original recipe (no mixes) of at least ¾ of the cake. Foam cakes are cakes that have a high ration 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).

*Class E412006 Specialty Pastry Any recipe, at least 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, scones, 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.

Food Preservation

General Instructions: Food Preservation

Entries Per Individual: One entry per exhibitor per class. Limit of three entries per exhibitor in Food Preservation.

<u>Processing Methods</u>: 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 container disqualifies entry.

<u>Jars and Lids</u>: 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.

<u>Current Project</u>: Exhibits must have been preserved since the member's previous year's county fair, and not been exhibited at the previous State Fair.

<u>Criteria for Judging</u>: Exhibits will be judged according to score sheets available at your local Extension office or at http://4h.unl.edu/county-fair/scoresheets. 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 with your local Extension Office or https://food.unl.edu/canning#elevation for your county's altitude and how that affects food processing times and pounds of pressure.

<u>Labeling</u>: 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. Multiple dried food exhibits should be secured by a rubber band or "twisty" to keep exhibit containing the 3 self-sealing bags together.

<u>Recipe/Supporting Information</u>: Recipe must be included, 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, 2015 revision (https://nchfp.uga.edu/publications/publications_usda.html)
- Nebraska Extension's Food Website: http://food.unl.edu/web/preservation/home or Extension publications from other states
- Ball Blue Book (published after 2009) or online: https://www.freshpreserving.com/recipes

Recipe Card Template available at:

https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/

This card may be used, or you may use a recipe card/sheet of your choosing.

	4-H Youth Recipe Care	d	88
Exhibitor's Name:		Age:	
County:			
Recipe Title:			
Ingredients & Instructions:			
			(continue on back)

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:

- 1. Name of product
- 2. Date preserved
- 3. Method of preservation (pressure canner, water bath canner or dried)
- 4. Type of pack (raw pack or hot pack)
- 5. Altitude (and altitude adjustment, if needed)
- 6. Processing time
- 7. Number of pounds of pressure (if pressure canner used)
- 8. Drying method and trying time (for dried food exhibits).
- 9. Recipe and source of recipe (if a publication, include name and date.)

Food Preservation Card Template available at:

https://extension.unl.edu/statewide/perkins-chase/perkins-county-4-h-fair-page/

EXTENSION	4-H Food Presen (Please attach this card to each		8/6
Name:		County:	
Name of Product:		Date Preserved:	
	CK ONE); e type of pack (check one): □ ra: Altitude:		
Pressure Canner, indicate typ	e of gauge (check one): weigh	ted gauge OR □ dial gauge	
Product was canned at	pounds pressure at	altitude.	
Processing time:	packed hot OR □	packed cold	
☐ Dehydration (check one): ☐ d	Sehydrator OR 🗆 other, please sp	ecify (ie: oven, solar, etc.):	

<u>Division 406</u> Recipe card & food preservation card required for ALL classes in this division —Unit 1 Freezing Project Manual—

*Class E406001 Baked Item Made with Frozen Produce Any recipe, at least ¾ of baked product or 4 muffins or cookies on a paper plate or in 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.

<u>Division 407</u> Recipe card & food preservation card required for ALL classes in this division —Unit 2 Drying Project Manual—

*Class E407001 Dried Fruits Exhibit 3 different examples of 3 different dried fruits. Place each dried fruit food (6-10 pieces of fruit minimum ¼ cup) in separate self-sealing bags. Use a rubber band or "twisty" to keep exhibit together.

*Class E407002 Fruit Leather 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.

*Class E407003 Vegetable Leather Exhibit 3 different examples of 3 different vegetable or vegetable/fruit leather combo. Place a 3-4" sample of each leather together in separate self-sealing bags. Use a rubber band or "twisty" to keep exhibit together.

*Class E407004 Dried Vegetables 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 exhibit together.

*Class E407005 Dried Herbs 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 exhibit together.

*Class E407006 Baked Item Made with Dried Produce/Herbs Any recipe, at least ¾ 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 item.

Division 408 Recipe card & food preservation card required for ALL classes in this division

-Unit 3 Boiling Water Canning Project Manual-

- *Class E408001 1 Jar Fruit Exhibit Exhibit one jar of a canned fruit. Entry must be processed in the boiling water bath according to current USDA recommendations.
- *Class E408002 3 Jar Fruit Exhibit Exhibit 3 jars of different canned fruits. May be three different techniques for the same type of product, Ex. Applesauce, canned apples, apple pie filling, etc. Entry must be processed in the boiling water bath according to current USDA recommendations.
- *Class E408003 1 Jar Tomato Exhibit Exhibit one jar of a canned tomato product. Entry must be processed in a boiling water bath according to current USDA recommendations.
- *Class E408004 3 Jar Tomato Exhibit 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.
- *Class E408005 1 Jar Pickled Exhibit One jar of a pickled and/or fermented product. Entry must be processed in a boiling water bath according to current USDA recommendations.
- *Class E408006 3 Jar Pickled Exhibit 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.
- *Class E408007 1 Jar Jelled Exhibit Exhibit one jar of a jam, jelly, fruit butter or marmalade. Entry must be processed in a boiling water bath according to current USDA recommendations.
- *Class E408008 3 Jar Jelled Exhibit 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.

Division 409 Recipe card & food preservation card required for ALL classes in this division

—Unit 4 Pressure Canning Project Manual—

- *Class E409001 1 Jar Vegetable or Meat Exhibit Exhibit one jar of canned vegetable or meat. Include only vegetables ore meats canned in a pressure canner according to current USDA recommendations.
- *Class E4090002 3 Jar Vegetable Exhibit Exhibit 3 jars of different kinds of canned vegetables. Include only vegetables canned in a pressure canner according to current USDA recommendations.
- *Class E409003 3 Jar Meat Exhibit Exhibit 3 jars of different kinds of canned meats. Include only meats canned in a pressure canner according to current USDA recommendations.
- *Class E409004 Quick Dinner Exhibit a minimum of 3 jars to a maximum of 5 jars plus menu. Meal should include 3 canned foods that can be prepared within an hour. List complete menu on a 3" inch x 5" inch file card and attach to one of the jars. Entry must be processed according to current USDA recommendations.
- *Class E409005 1 Jar Tomato Exhibit One jar of a canned tomato product. Entry must be processed in a pressure canner according to current USDA recommendations.
- *Class E409006 3 Jar Tomato Exhibit 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.

Cake Decorating

Cakes to be displayed on a cake board suited to the size and shape of cake decorated. Display boards may be any size or shape. Label each exhibit with exhibitor name, age and county. Follow the decorating guidelines outlined in each class description.

Division 420

Classes in this division are ineligible for State Fair

-Unit 1-

Class E420900 One Layer Decorated Cake Baked and frosted by the exhibitor using a 8" inch or 9" inch round or square pan or a 9" inch x 13" inch rectangular pan. Decorate with edible items ONLY such as candy, pretzels, coconut, etc. Cake is not to be decorated with decorator tips.

Class E420901 Display Board 1 Examples of flowers, figures, etc. made with candy, ice cream cones, cookies, dried fruit, etc.

-Unit 2-

Class E420902 Character Cake Baked and decorated by the exhibitor using a shaped character pan. Non-edible items may not be used on the cake.

Class E420903 Display Board 2 Showcase your skills using at least 2 decorating tips.

-Unit 3-

Class E420904 Two Layer Decorated Cake Baked and frosted by the exhibitor using 3-4 different decorating tips. Use of the writing, star and leaf tips are required. The other tips used are your choice. Do not use flowers made on a flower nail or materials other than icing for decoration.

Class E420905 Display Board 3 Showcase your skills using 5 different decorating tips. You must include examples using the writing, star and leaf tips.

-Unit 4-

Class E420906 Decorated Cut Up Cake Baked and frosted by the exhibitor using at least 3 decorator tips. Parts of the decoration may be created with edible materials (coconut, candy, etc.) if desired.

Class E420907 Display Board 4 Showcase your skills using 5 different decorating tips.

—Unit 5—

Class E420908 Two Layer Decorated Cake or Cake Form Decorate a 8" inch, 9" inch or 10" inch baked cake or cake form at least 2" inches tall using a minimum of: one flat surface flower, one flower make on a flat flower nail, one border and one side trim learned in the unit. Design should be suitable for the size and shape of the cake. Use only edible materials except stamens for the flowers. Stamens may be purchased or hand-made.

Class E420909 Display Board 5 Should include at least 2 borders, 1 flat surface flower, 1 flower made on a flat flower nail, 2 side trims.

-Unit 6-

Class E420910 Two Layer 8" inch, 9" inch or 10" inch Cake Baked or a cake form at least 2" inches tall using figure piping, string work, flower made on a lily nail and techniques learned in previous units. Design should be suitable for the size and shape of the cake. Artificial stamens for flowers, leaves, wire stems and floral tape may be used. All other cake decorations must be edible. Other decorations, which may be used on the cake, include flowers and leaves booked to a wire stem.

Class E420911 Display Board 6 Should include at least 2 borders, 2 techniques, one should be string work, 3 flowers, one should be made on a lily nail.

-Unit 7-

Class E420912 Cake Using Graduated Size Tiers Each tier should be a two-layer cake or cake form that is 2" inches tall for each layer. Supports, separator plates and pillars may be used. Techniques learned in previous units must be used to decorate the cake. The decorated cake must be for a wedding, anniversary, formal party or other equally elegant occasion. Design should be suitable for the size and shape of the cake. Artificial stamens for flowers, leaves, wire stems, floral tape, special occasion ornaments, tulle and filler flowers may be used. All other cake decorations must be edible.

Class E420913 Display Board 7 Should include techniques suitable for an elegant cake with at least 3 borders, 2 techniques, and 4 flowers.

-Unit 8-

Class E420914 One Two Layer 8" inch, 9" inch or 10" inch Cake Either baked or cake form 2" inches high for each layer. Decorated with molded items. Molded items may include pastillage, rolled butter cream gum past, marzipan, molded chocolate, sugar molds, etc. Design should be suitable for the size and shape of the cake. All molds and/or shapes must be made of edible materials.

Class E420915 Display Board 8 Creatively display at least 3 different molded items.

-Unit 9-

Class E420916 Plan, Develop & Evaluate your own Cake Decorating Project Write a brief description of your project, including goals, plans, accomplishments and evaluation of results. Use pictures and any records you have kept to provide evidence of your accomplishments. Displays must be self-contained and no larger than 24" inches x 24" inches x 24" inches. All items should be securely attached to the exhibit and labeled with the exhibitor's name.

-Units 2-7-

Class E420917 Figure Piping Display figure piping in a creative way.

Class E420918 Gingerbread House

Class E420919 Cupcakes Display 4 decorated cupcakes.

Class E420920 All Other Decorated Cakes

Safety

Division 440

*Class E440001 First Aid Kit 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 4H425 Citizen Safety manual, pp. 6-7 and score sheet SF110 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. Material 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

*Class E440002 Disaster Kit (Emergency Preparedness) 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 water needs for your disaster kit. Do not bring actual water to the fair in the kit.

*Class E440003 Safety 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 1/2" inches x 11" inches size paper. Correct sentence structure, readability and thorough explanations are an important part of judging.

*Class E440004 Safety Experience 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 documentation, a notebook including up to ten pages of narrative and pictures, or a multimedia presentation on a CD lasting up to five minutes.

*Class E440005 Careers in Safety 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.

Fire Safety Education

Division 450

*Class E450001 Fire Safety Poster 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.

*Class E450002 Fire Safety Scrapbook This 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.

*Class E450003 Fire Prevention Poster 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, Fourth of July, etc.). Originality, clarity and artistic impression will all be judged. Do not include live fireworks, matches or other flammable/explosives/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.

ATV (All-Terrain Vehicle)

Division 451

Classes in this division are ineligible for State Fair

Class E451900 Demonstration Display 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 high x 32" inches wide and 1/4" inch thick.

Class E451901 You Be the Teacher Educational notebook, display, collection of materials that relate to project. Include 8 1/2" inches x 11" inches page describing exhibit and summary of learning.

Cycling

Projects: Bicycle Adventures 2, Bicycle Adventures 3

Division 453

Classes in this division are ineligible for State Fair

Class E453900 Bicycle Demonstration Display Show 1) Some part or system of a bicycle, 2) Worn or broken parts or 3) A step-by-step procedure of how some repair or service job is performed. Include a brief description. Display on a board 24" inches high x 32" inches wide and 1/4" inch thick.

Class E453901 Documented Bike Riding Trip Include a written report using a notebook or scrapbook showing a bike ride or trip you have made using your bike.

Class E453902 You Be the Teacher Educational notebook, display, collection of materials that relate to project. Include 8 1/2" inches x 11" inches page describing exhibit and summary of learning.

Tractor Safety

Division 457

Classes in this division are ineligible for State Fair

Class E457900 Individual Tractor Service Record As described in Unit 3 of the tractor project manual. 4-H'ers will need to design own service record form or adapt the service record shown in Unit 4 of tractor project.

Class E457901 Tractor Demonstration Display To be exhibited by an individual only. Exhibit should show some part of system of tractor. A brief description of how the part of system functions must be attached. Prepare the display on a 24" inches high x 32" inches wide board not to exceed 1/4" inch in thickness.

Class E457902 Tractor Safety Poster This must be constructed on poster board at least 11" inches x 14" inches. Any media can be used. Posters should be appropriate to display to promote tractor safety. Originality, clarity and artistic impression will all be judged.

Class E457903 Tractor Safety Display Board This is a display board depicting an actual farm. Display must show safety hazards or safety practices. An information sheet pointing out the safety hazards or safety practices must be attached. Display board must be at least 24" inches x 24" inches.

DEPARTMENT F: ENTREPRENEURSHIP

Entrepreneurship

Projects: ESI: Discover the E-Scene, ESI: The Case of ME,

ESI: Your Business Inspection, Blueprint

General Instructions: ESI: EntrepreneurShip Investigation

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

<u>Exhibit Guidelines</u>: The 4-H member's name, age, town and county must be listed on the back of the exhibit. 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.

Division 531

- ESI Unit 1 Discover the E-Scene-

*Class F531001 Interview an Entrepreneur 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).

-ESI Unit 2 The Case of ME-

*Class F531002 Social Entrepreneurship Presentation Prepare a five slide power point 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).

-ESI Unit 3 Your Business Inspection-

*Class F531003 Marketing Package (mounted on a 14" inches x 22" inches poster) Must include at least 3 items (examples) developed by the 4-H'er from the following list: business card, brochure, advertisement, business promotional piece, printout of an internet home page, packaging design, signs, logo design, direct mail piece, etc. The marketing package should be for an original business developed by the 4-H'er and not an existing business.

*Class F531004 Sample of an Original Product With an information sheet (8 1/2" inches x 11" inches) answering the following questions:

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

*Class F531005 Photos of an Original Product (mounted on a 14" inches x 22" inches poster) Must include three photos of developed product and a mounted information sheet answering the following questions:

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

If exhibiting in both Class F531004 and Class F531005, products must be entirely different products.

*Class 531006 Entrepreneurship Challenge Take on the entrepreneurship challenge. Entrepreneurship Challenge is open to 4-H'ers enrolled in any of the three units of ESI. 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 your five (5) challenges from the list below:

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

DEPARTMENT G: PLANT SCIENCE

Agronomy

Individuals in the Crop Production, Field Crops project may exhibit grain or plants to prepare an educational display representing their project. 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. For guidelines on specific projects, refer to appropriate project manuals.

Field Crops

General Instructions: Grain or Plant Exhibits

Grain or Plant Exhibits (classes 1-5):

- A completed Crop Production Worksheet must accompany grain and plant exhibits (https://cropwatch.unl.edu/Youth/Documents/Crop%20Production%20Project%20Worksheet%20Final.pdf) or it will be 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.
- 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.
- Worksheet must be the original work of the individual exhibitor or it will be deducted one ribbon placing.
- 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. 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 appropriate sized box/container for display. Place in a clear container so it can be viewed and displayed.
- 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)
 - <u>Grain Sorghum</u>—4 stalks (cut at ground level and bound together)
 - Soybeans—6 stalks (cut at ground level and bound together)
 - <u>Small Grains</u>—(oats, barley, wheat, triticale)—sheaf of heads 2" inches in diameter at top tie with stems about 24" inches long
 - 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.

Displays (classes 6-10):

- 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 wide by 28" inches tall 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.
- Consider creativity and neatness. 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 reference used.
- The essay should be in a clear plastic cover with the exhibitor's name outside. If the display does
 not have an essay, it will automatically be deducted one ribbon placing.

<u>Special Agronomy Project</u>: 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 determine 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 in pots. Written resource 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.

Division 750

-Grain or Plant Exhibits-

Crop Production Worksheet required for classes G750001-G750005

- *Class G750001 Corn (Includes yellow, white, pop, waxy, or any other type)
- *Class G750002 Soybeans
- *Class G750003 Oats
- *Class G750004 Wheat
- *Class G750005 Any Other Crop Includes: grain sorghum, alfalfa, millets, barley, rye, triticale, amaranth, dry beans, sugar beet, mung bean, canola, forage sorghum, safflower, etc.

-Displays-

- *Class G750006 Crop Production Display 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, pest management, etc.
- *Class G750007 Crop Technology Display Display information about aspects of technology used in crop production, such as genetic engineering, crop breeding, GPS, yield mapping, computers, etc.
- *Class G750008 Crop End Use Display Display information about the final product or end uses for a crop, such as food, feed, fuel, or other products. (i.e. corn can be processed into livestock feed, ethanol, plastics, etc. or soybeans can be processed into bio-diesel, pet bedding, crayons, oil, etc.) This should not be about the process of crop production, but focus on an end product(s).
- *Class G750009 Water or Soil Conservation Display 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.
- *Class G750010 Career Interview Display The purpose of this class is to allow youth to investigate a career in agronomy. Youth should interview 1 person that works with corps about such topics as, what parts of their job do they enjoy or dislike, why did they choose that career, what was their education, etc. Include a picture of the person interviewed.

-Special Agronomy Project-

- *Class G750011 Special Agronomy Project-Educational Exhibit 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. 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.
- *Class G750012 Special Agronomy Project-Video Presentation 4-H exhibitor designs a multimedia presentation related to the corp. 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 not 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. Email a link of the video to the superintendents anygren2@unl.edu or brandy.vanderwalle@unl.edu by August 10th.

*Class G750013 Special Agronomy Project-Freshly Harvested Crop Plant exhibits must be the result of the current year's project. Depending on the type of crop selected for the current year.

- Corn—10 ears or 3 stalks (cut at ground level with no roots or soil and bound together)
- <u>Grain Sorghum</u>—4 stalks (cut at ground level and bound together)
- <u>Soybeans</u>—6 stalks (cut at ground level and bound together)
- <u>Small Grains</u>—(oats, barley, wheat, triticale)—sheaf of heads 2" inches in diameter at top tie with stems about 24" inches long
- Other Crops—(alfalfa, millet, etc.)—sheaf of stems 3" inches in diameter at top tied with stems cut at ground level.

Supporting documentation (1/2 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.

Weed Science

Projects: Environment 1, Environment 2, Environment 3, Reading the Range 1, Using Nebraska Range 2, Field Crops 1, Field Crops 2, Field Crops 3

General Instructions: Weed Science

General Information:

 Any individual in the Conservation, Environment 1, 2 or 3, Range, Reading the Range 1 or Using Nebraska Range 2, or Crop Production, Field Crops projects may exhibit a weed book or weed display. At least 15 of specimens must represent this year's work. For assistance identifying plants, participants can use Nebraska Department of Agriculture's <u>Weeds of Nebraska and the Great</u> Plains (1994) or Weeds of the Great Plains (2003).

Books (Classes 1-2):

- 1. 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 that taped and the mounts should be protected with a clear cover.
- 2. Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements. Refer to Scoresheet SF261.
- 3. <u>Each Completed Mount Must Have the Following Information (See Example Below) In the Lower Right Corner of the Mounting Sheet:</u>
- a. Scientific name (in italic or underlined), with authority
- b. Common name
- c. County of collection
- d. Collection Date
- e. Collector's name
- f. Collection number, indicating order that plants were collected
- g. Other information depending on class selected, i.e. noxious, life form, etc.

This information should be typed or printed neatly.

Scientific name: Abutilon theophrasti Medik.

Common name: Velvetleaf
County of collection: Hall County
Collection date: 6 July 2017
Collector's name: Dan D. Lion

Personal collection number: 3

Life cycle: annual

Displays (Class 3):

- 1. 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.
- 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.

Division 751

-Books-

*Class G751001 Weed Identification Book A collection of a minimum of 15 plant mount including at least two prohibited noxious weeds (Canada thistle, musk thistle, plumeless thistle, salt cedar, leafy spurge, purple loosestrife, diffuse knapweed, spotted knapweed, Japanese knotweed, bohemian knotweed or phragmites), and at least three weeds that are a problem primarily in lawns.

*Class G751002 Life Span Book A collection of 7 perennials, 1 biennial, and 7 annual weeds.

-Displays-

*Class G751003 Weed Display 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.

Horticulture

Floriculture, Educational Exhibits & Houseplants

Projects: The World of Flowers, Annual Flowers, Houseplants

General Instructions: Floriculture

General Instructions: Youth must be enrolled in the World of Flowers and/or Annual Flowers projects to exhibit a maximum of four (4) entries per person in classes 1-46 (cut flowers) for state fair and 50-53 (educational exhibits). Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER.

Cultivar & Variety Information: The cultivar or variety name must be included on all entry cards. If potted container with several cultivar or varieties identify 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. For floriculture, punch a hole in the top center of entry tag, use a rubber band to securely attach entry tag to containers. Entry Information:

- 1. Exhibits entered under an incorrect class number or containing an incorrect number of stems will be dropped on 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.
- 2. All 3 or 5 stems of cut flowers should be the same cultivar and color. Containers will not be judged; however, they should be CLEAR GLASS CONTAINERS that won't tip over 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 tinfoil or a type of plastic wrap with holes poked into it or frog lids. Containers may not be returned from State Fair.

Division 770

—Cut Flower Annuals & Biennials—

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

*Class	G770	0001	Aster
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*Class G770002 Bachelor Buttons

*Class G770003 Bells of Ireland

*Class G770004 Browallia

*Class G770005 Calendula

*Class G770006 Celosia (3 stems)

(crested or plume)

*Class G770007 Cosmos

*Class G770008 Dahlia

*Class G770009 Dianthus

*Class G770010 Foxglove

*Class G770011 Gladiolus (3 stems)

*Class G770012 Gomphrena

*Class G770013 Hollyhock (3 stems)

*Class G770014 Marigold

*Class G770015 Pansy

*Class G770016 Petunia

*Class G770017 Salvia

*Class G770018 Snapdragon

*Class G770019 Statice

*Class G770020 Sunflower (under 3" inch diameter-5 stems, 3" inches or more in

diameter-3 stems)

*Class G770021 Vinca

*Class G770022 Zinnia

*Class G770023 Any other Annual/Biennial

(under 3" inch diameter-5 stems, 3" inches or more in diameter-3 stems; do not duplicate

entries in classes 1-22)

-Cut Flower Perennials-

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

*Class G770030 Achillea/Yarrow
*Class G770031 Chrysanthemum
*Class G770032 Coneflower
*Class G770033 Coreopsis
*Class G770034 Daisy
*Class G770035 Gaillardia
*Class G770036 Helianthus

*Class G770037 Hydrangea (3 stems)
*Class G770038 Liatris (3 stems)

*Class G770039 Lilies (3 stems)(Not Daylilies)

*Class G770040 Platycodon

*Class G770041 Rose (3 stems)

*Class G770042 Rudbeckia/Black-eyed Susan

*Class G770043 Sedum *Class G770044 Statice

*Class G770045 Any other Perennial (under 3" inch diameter-5 stems, 3" inches or more in diameter-3 stems; do not duplicate entries in classes 30-44)

*Class 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. Do not duplicate entries in classes 1-45 with any in the group collection.

-Educational Exhibits-

*Class G770050 Flower Notebook 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. The 4-H member's name, age, county, and years in the project(s) must be on the back of the notebook.

*Class G770051 Flower Garden Promotion Poster Individual poster promoting flower gardening, size 14" inches x 22" inches either vertical or horizontal in arrangement. Post may be in any medium: watercolor, ink, crayons, 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. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

*Class G770052 Educational Flower Garden Poster Prepare a poster 14" inches x 2" 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 flowers 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. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

*Class G770053 Flower Gardening History Interview 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 or small 3-ring notebook. The 4-H member's name, age, county and years in the project(s) must be written on the back of the report cover or notebook.

General Instructions: Houseplants

<u>General Instructions</u>: Youth must be enrolled in the **Growing Great Houseplants** project to exhibit in classes 60-66. Youth may enter a maximum of three (3) entries in classes 50-66, but each entry must have received a purple ribbon at the county fair to advance to the State Fair.

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 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" (http://extensionpublications.unl.edu/assets/html/g2205/build/g2205.htm) and NebGuide G837 "Guide to Selecting Houseplants" (http://extensionpublications.unl.edu/assets/html/g837/build/g837.htm) 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. Entries in classes 60-66 must have been designed and planted by the 4-H member. Container grown houseplants must have received a purple ribbon at the county fair to be exhibited at the State Fair. Container grown houseplants shall be in pots no greater than 12" inches in diameter (inside opening measurement).

<u>Container Plants</u>: 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.

<u>Container Information</u>: Classes 60-65 exhibitors must have and provide a saucer to catch drainage water. The 4-H member's name, age, county, and years in the project(s) must be on the bottom or back of the container and saucer.

- *Class G770060 Flowering Potted Houseplant(s) Must be blooming for exhibition. Container may have one or more houseplants in container. Label variety or cultivar for each plant. Non-blooming plants will be disqualified.
- *Class G770061 Foliage Potted Houseplant One variety of tropical or cacti or succulent plant. Label with name of plant should be included.
- *Class G770062 Hanging Basket Of flowering and/or foliage houseplants. Container may have one or more houseplants in container. Label variety or cultivar for each plant.
- *Class G770063 Dish Garden An open/shallow container featuring a variety of plants excluding cacti and succulents. Label variety or cultivar for each plant.
- *Class G770064 Fairy or Miniature Garden 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 bath tub, etc. Label with name for each plant should be included.
- *Class G770065 Desert Garden An open/shallow container featuring cacti and/or succulents. Label with name for each plant should be included.
- *Class G770066 Terrarium A transparent container, partially or completely enclosed; sealed or unsealed. Label with name for each plant should be included.

Vegetables, Herbs, Fruits & Educational Exhibits

Projects: Everyone a Gardener, Gardening A, Gardening B, Gardening C, Gardening D, Special Gardening Project

General Instructions: Vegetables

General Guidelines: 4-H'ers must be enrolled in the **Everyone a Gardener** project, **Gardening Unit 1-4 and/or Special Garden Project**. An exhibitor may enter a maximum of four (4) entries per person in classes 201-294 *at State Fair*. Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER. Notebooks are posters must have received a purple ribbon at the county fair to advance to the State Fair.

<u>Cultivar & Variety Information</u>: 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.

<u>Entry Information</u>: 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 already listed classes or entry will be dropped one ribbon placing. <u>For Example</u>: 4-H'ers 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.

Division 773

Division 113			
*Class G773201 Lima E	Beans (12)	*Class G773231	Radish (5)
*Class G773202 Snap I	Beans (12)	*Class G773232	Rhubarb (5)
*Class G773203 Wax B	eans (12)	*Class G773233	Rutabaga (2)
*Class G773204 Beets	(5)	*Class G773234	Green Summer Squash (2)
*Class G773205 Brocce	oli (2)	*Class G773235	Yellow Summer Squash (2)
*Class G773206 Brusse		*Class G773236	White Summer Squash (2)
*Class G773207 Green	Cabbage (2)	*Class G773237	Acorn Squash (2)
*Class G773208 Red Ca	abbage (2)	*Class G773238	Butternut Squash (2)
*Class G773209 Carrot	s (5)	*Class G773239	Buttercup Squash (2)
*Class G773210 Caulifl	ower (2)	*Class G773240	Other Winter Squash (2)
*Class G773211 Slicing	g Cucumbers (2)	*Class G773241	Sweet Corn (in husks) (5)
*Class G773212 Picklin	ng Cucumbers (5)	*Class G773242	Swiss Chard (5)
*Class G773213 Eggpla	ant (2)	*Class G773243	Red Tomatoes (5)
*Class G773214 Kohlra	ıbi (5)		(2" inches or more in diameter)
*Class G773215 Muskn	nelon/Cantaloupe (2)	*Class G773244	Roma/Sauce-type Tomatoes (5)
*Class G773216 Okra ((5)	*Class G773245	Salad Tomatoes (12)
*Class G773217 Yellow	Onions (5)		(under 2" inches in diameter)
*Class G773218 Red O	nions (5)	*Class G773246	Yellow Tomatoes (5)
*Class G773219 White	Onions (5)		(2" inches or more in diameter)
*Class G773220 Parsni	ps (5)	*Class G773247	Turnips (5)
*Class G773221 Bell Pe	eppers (5)	*Class G773248	Watermelon (2)
*Class G773222 Sweet	(non-bell)Peppers (5)	*Class G773249	Dry Edible Beans (1 pint)
*Class G773223 Jalape	eño Peppers (5)	*Class G773250	Gourds, mixed types (5)
*Class G773224 Hot (no	on-jalapeño) Peppers (5)		Gourds, single variety (5)
*Class G773225 White	Potatoes (5)	*Class G773252	Any Other Vegetable (2, 5 or 12)
*Class G773226 Red Po	otatoes (5)	Do not duplicate	entries in classes 201-251
*Class G773227 Russe	t Potatoes (5)		
*Class G773228 Other	Potatoes (5)		
*Class G773229 Pumpl	kin (2)		
*Class G773230 Miniat	ure Pumpkins (5)		
(Jack B	e Little type)		

*Class G773255 4-H Vegetable Garden Collection of 5 kinds of Vegetables Display Garden Collection in a box not more than 24" inches in any dimension. 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.

*Class 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 or, squash or, onions or, tomatoes, etc. Display in a box not more than 24" inches in any dimension. 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).

General Instructions: Herbs

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 GALSS 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.

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*Class G773260 Basil (5)
*Class G773261 Dill (dry) (5)
*Class G773262 Garlic (bulbs) (5)
*Class G773263 Mint (5)
*Class G773264 Oregano (5)
*Class G773265 Parsley (5)
*Class G773266 Sage (5)
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*Class G773267 Thyme (5)

*Class G773269 4-H Herb Garden Display of 5 Different Cut Herbs Herbs are to be cut not potted. Displayed in a box or other holder not more than 18" inches in any dimension. 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 group collection.

General Instructions: Fruits

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.

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*Class G773280 Strawberries (everbearers) (1 pint)

*Class G773281 Grapes (2 bunches)

*Class G773282 Apples (5)

*Class G773283 Pears (5)

*Class G773284 Wild Plums (1 pint)
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^{*}Class G773268 Any Other Herb (5) Do not duplicate entries in classes 260-267.

^{*}Class G773285 Other Small Fruit or Berries (1 pint) Do not duplicate entries in classes 280-284.

^{*}Class G773286 Other Fruits or Nuts (5) Do not duplicate entries in classes 280-284.

-Educational Exhibits-

*Class G773290 Garden Promotion Poster 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 stapled to the upper right hand corner. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

*Class G773291 Educational Vegetable or Herb Garden Poster Prepare a poster 14" inches x 22" inches x 2" inches (3-dimensional, if needed) either vertical or horizontal arrangement illustrating a skill of 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 stapled to the upper right hand corner. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

*Class G773292 Vegetable and/or Herb Gardening History Interview 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 1 picture of the person you interviewed) or 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 the project(s) must be the back of the report cover.

*Class G773293 Vegetable Seed Display Each display must include seeds representing the following families: Cucurbit, Brassica (cabbage), Solanaceous (nightshade) and Legume (pea), plus representatives from 5 other families. Group the seeds by family and type. Glue seeds or otherwise fasten clear containers of seeds 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 project(s) must be on the back of the display. Information on vegetable family members can be obtained from you extension office.

*Class G773294 World of Vegetables Notebook Choose a favorite foreign cuisine and learn what vegetables and/or herbs are common to it (e.g. Mexican, African, Chinese, Italian, etc.). Include a report telling 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. Give proper credit by listing the source of pictures and information used. Protect with a clear report cover or 3-ring notebook. The 4-H member's name, age, county, and years in the project(s) must be the back of the report cover or notebook.

General Instructions: Special Garden Project

Youth must be enrolled in the current years' Special Garden Project to exhibit.

Division 775

*Class G775001 Special Garden Project Educational Exhibit 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.

*Class G775002 Special Garden Project Fresh Cut Flowers or Harvested Vegetables The current years' Special Garden Project fresh cut flowers or harvested vegetables should be entered in this class. Refer to classes 1-45 for quantity to exhibit if special garden project is a fresh cut flower. Refer to classes 201-252 for quantity to exhibit if special garden project is a vegetable.

DEPARTMENT H: SCIENCE, ENGINEERING & TECHNOLOGY

Entomology

Projects: Insectigator, Entomology 1, Entomology 2, Entomology 3,

General Instructions: Entomology

<u>General Information</u>: Specimens in display collections should be mounted properly and labeled location and date of collection, name of collector, and order name. Follow mounting and labeling instructions in the old edition of the Nebraska 4-H Entomology Manual. Boxes are preferred to be 12" inches high x 18" inches wide, and landscape orientation, so they fit in display racks. Purchase of commercially-made boxes is allowed. All specimens are to be pinned and labeled by the exhibitor. No purchased specimens allowed. No projects over 50 pounds allowed.

Division 800

*Class H800001 Entomology Display, 1st Year Project Collection to consist of 25 or more different kinds (species) of insects representing at least 6 orders. Limit of one box.

*Class H800002 Entomology Display, 2nd Year Project 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 from after July 1 of previous year. Limit of 2 boxes.

*Class H800003 Entomology Display, 3rd Year Project Collection to consist of a 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 previous year. Limit of 3 boxes.

*Class H800004 Special Interest or Advanced Insect Display 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.)

*Class H800005 Insect Habitats Habitats consist of any hand-crafted objects, made of natural or artificial materials, to be 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

*Class H800006 Macrophotography Subjects should be insects, spiders or other arthropods, or any nests, webs or constructions they make. 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 (portrait or landscape). No frames or mat board framing is allowed. A caption of a few sentences should explain the subject, printed on white paper and glued below the print on the poster board.

*Class H800007 Insect Poster/Display Exhibits 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 (ex. 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.

*Class H800008 Reports or Journals Reports or 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 in kinds of butterflies over the summer, rearing a specific insect from egg to adult, managing a beehive, observations of insects in a specific insect habitat, accounts of insect behavior in a forest or flower garden, etc.

Veterinary Science

Projects: Veterinary Science, The Normal Animal, Animal Disease, Animal Health and its Relationship to Our World

General Instructions: Veterinary Science

<u>General Information</u>: The purpose of a veterinary science exhibit is to inform the public about a common health problem of animals, a veterinary science principle or public health/zoonotic diseases.

<u>Veterinary Science Exhibit</u>: An exhibit may consist of a poster or a display. The exhibit may represent material from exhibitors enrolled in Animal Disease or Animal Health. 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.

<u>First Aid Kits</u>: Because of public safety concerns and risk of theft of first aid kit contents (veterinary drugs/equipment) with perceived potential 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.

<u>Veterinary Science Posters</u>: 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.

<u>Veterinary Science Displays</u>: A display may include, but is not limited to, a 3-dimensional exhibit, a scale model, the actual product (<u>For Example</u>: 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 x 32" inches wide or in a three ring binder or another bound notebook format.

<u>Appropriate Veterinary Science Topics:</u>

- 1. Maintaining health
- 2. Specific disease information
- 3. Photographic display of normal and abnormal characteristics of animals
- 4. Animal health or safety
- 5. Public health or safety
- 6. Proper animal management to ensure food safety and quality
- 7. Efficient and safe livestock working facilities
- 8. Or a topic of the exhibitor's choosing related to veterinary medicine or veterinary science

**Remember, since these are science displays, all references and information needs 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.

Division 840

*Class H840001 4-H Veterinary Science Large Animal Poster, Notebook or Display

*Class H840002 4-H Veterinary Science Small Animal/Pet Poster, Notebook or Display

Science, Engineering, and Technology

STEM Rockets

Projects: Aerospace 2, Aerospace 3, Aerospace 4

General Instructions: STEM Rockets

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.

<u>Labeling</u>: 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.

Rocket Support: 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 to 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 rocket 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.

Reports: 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

<u>Flight Record</u>: 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.

<u>Judging</u>: Judging is based upon display appearance, rocket appearance, workmanship, design or capabilities for flight, number of times launched and report.

<u>Number of Required Launches</u>: Three launches are required to earn the maximum launch points given on the score sheets. For scoring, only actual launches count, misfires will not count towards one of the required three launches.

<u>For Self-Designed Rockets Only</u>: Please include a digital recorded copy of one flight. In the documentation please include a description of stability testing before the rocket was flown.

<u>Skill Level</u>: The skill level of a project is not determined by number of years in project. <u>Skill level is determined by the level listed on the manufacturing packaging</u>. 4-H Rocket project levels are not intended to correspond to National Association of Rocketry model rocket difficulty ratings or levels.

<u>High Power Rockets</u>: 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.**

<u>Posters</u>: Posters can be any size up to 28" inches by 22" inches when ready for display. <u>Example</u>: tri fold poster boards are not 28" inches by 22" inches when fully open for display.

Division 850 A rocket report is required for all rocket classes (see general instructions)

—Aerospace—

Youth enrolled in STEM Rockets may exhibit in any class within this division.

*Class H850001 Rocket Any skill level rocket with <u>wooden fins and cardboard body tubes</u> painted by hand or air brush.

*Class H850002 Aerospace Display 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. Include notebook containing terminology (definition), and what was learned. Display can be any size up to 28" inches x 22" inches.

*Class H850003 Rocket Any skill level rocket with <u>wooden fins and cardboard body tubes</u> painted using commercial application (example-commercial spray paint).

-Self-Designed Rocket-

Youth enrolled in STEM Rockets may exhibit in any class within this division.

*Class H850004 Rocket Any self-designed rocket with wooden fins and cardboard body tubes.

-Drones

Youth enrolled in STEM Rockets may exhibit in any class within this division.

*Class H850005 Drone Poster Exhibit must be designed to educate yourself and others on one or more of the following topics:

- 1. Drone technologies
- 2. Uses of drones
- 3. The different types of drones
- 4. Types of training needed to operate drones
- 5. The laws and regulations users must follow

Posters can be any size up to 28" inches x 22" inches.

*Class H850006 Drone Video Exhibit must demonstrate how the drones 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. State fair qualified videos should be submitted to https://go.unl.edu/2024nesfset by August 10, 2024, or 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.

STEM Computers

Projects: Computer Mysteries 1, Computer Mysteries 2, Computer Mysteries 3

General Instructions: STEM Computers

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 in the different aspects of computer science. Involvement in STEM Computers gives participants a first-hand experience in modern technology.

<u>Labeling</u>: 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 notebooks so owner of the exhibit may be identified if the entry tag is separated from the exhibit.

<u>Demonstration Boards</u>: Demonstration boards should include an overall title for the display, plus other necessary labeling.

Reports: Reports should be written using the scientific method whenever possible:

- Background
- Question or hypothesis
- What you plan to do and what you did
- · Method used and observations
- Results: what you learned

All reports should be attached securely to the display.

<u>Team Entries</u>: 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.

Division 860

—Computer 1—

Classes 900-909 in this division are ineligible for State Fair

Class H860900 Poster Create a poster on a lesson learned in Unit One. Examples: hardware, software programs, how to take care of a computer, operating systems, etc. A poster should not exceed 22" inches x 28" inches and may be either vertical or horizontal.

Class H860901 4-H Promotional Flier Exhibit should be created on 8 1/2" inches x 11" inches page using a commercially available graphics software package. Can be color or black and white. Can be a whole page or a folded flier.

Class H60902 Computer Art Poster (Black & White) Exhibit should be created on at least 8.5" inches x 11" inches paper using a commercially available graphics software package.

Class H860903 Computer Art Poster (Color) Exhibit should be created on at least 8.5" inches x 11" inches paper using a commercially available graphics software package.

Class H860904 Hardware/Software Selection Exhibit will be a notebook including a two page minimum, neatly written or typed report on the hardware and/or software that was selected to meet specific needs. Exhibit should be written from a consumer point of view explaining the steps taken during the experience.

Class H860905 Computer Designed Greeting Card Exhibit will consist of 6 greetings cards, each for a different occasion/holiday. Exhibit should be created on 8.5" inches x 11" inches paper using a commercially available graphics program. The cards should vary in folds and design. Prefabricated cards from commercially available card programs will not be accepted. No theme required.

Class H860906 Internet Exploration Exhibit will be a notebook consisting of the following 4 areas:

- 1) 3 e-mails sent requesting a reply
- 2) the reply to each of the e-mails
- 3) print-outs of three websites
- 4) what you liked and did not like about each website

Class H860907 E-Mail and Attachment Exhibit will consist of a one paragraph e-mail introducing your project. The attachment will be a one page text telling the steps taken to complete and send the e-mail and the attachment and the benefits of this project.

Class H860908 Digital Camera Display Exhibit will consist of a series of pictures showing how you used computer software to enhance or change a single digital camera picture. Exhibit should explain what hardware and software was used and how software was used to change each picture.

Class H860909 Utilizing the Internet Exhibit will be a notebook of websites used to plan a real or fictitious vacation

Notebook Will Consist of At Least Four Different Web Sites Illustrating the Following:

- 1. Airfare and/or directions to drive to destination
- 2. Hotels/motels in the area
- 3. Things to do (i.e. baseball game, Disney World, amusement park, etc.)
- 4. A maximum one-page text telling the steps taken to plan the vacation. List websites for each and tell how you may be able to use the web to plan or research other things in the future.

—Computer 2—

*Class H860001 Computer Application Notebook 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 such as a birthday, wedding, anniversary, sympathy, get well or other)
- Business Card (3 cards for 3 different individuals and businesses)
- Menu (minimum of 2 pages including short description of foods and pricing)
- Book layout (1 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" inches x 11" inches) which should include a:

- Detailed report describing:
 - The task to be completed
 - o The computer application software required to complete the task
 - o 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.

*Class H860002 Produce a Computer Slideshow Presentation 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. 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 3—

*Class H860003 Produce an Audio/Video Computer Presentation 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 off 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, or entries can be uploaded to a cloud streaming 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.

*Class H860004 "How To" STEM (Science Technology, Engineering and Math) Presentation 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 eligible entries should be submitted to https://go.unl.edu/2024nesfset by August 10th, 2024. Or videos can 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.

*Class H860005 Virtual Platform Presentation 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 videos should be submitted to https://go.unl.edu/2024nesfset by August 10th. Videos can also be uploaded to a video streaming application and exhibitors MUST provide a hard copy QR code for viewing. Exhibitors are encouraged to test their codes or links on several devices to check for appropriate permissions for public viewing.

*Class H860006 Create a Website/Blog or App 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 Sties, 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 videos should be submitted to https://go.unl.edu/2024nesfset by August 10th. Videos can also be uploaded to a video streaming application and exhibitors MUST provide a hard copy QR code for viewing. Exhibitors are encouraged to test their codes or links on several devices to check for appropriate permissions for public viewing.

*Class H860007 3D Printing 3D printing uses plastic or other materials to build a three-dimensional (3D) object for a digital design (including 3D Pen Creation). Youth may use original designs or someone else's they have re-designed in a unique way. Exhibits will be judged based on the motivation and/or problem identified. For example: 3D objects printed as a part of the design process for robot or other engineering project. Must include design notebook that address 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 to 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 you design.
- 6. Identify any changes that you would make to improve your design.

*Class H860008 Maker Space/Digital Fabrication 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 corel draw or Fusion 360 would be an example of an appropriate software used to create your finished project. Project Must 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 Robotics

Projects: Junk Drawer Robotics 1, Junk Drawer Robotics 2, Junk Drawer Robotics 3, Robotics Platforms

General Instructions: STEM Robotics

This category involves the 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.

<u>Labeling</u>: 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.

Reports: Reports should be written using the scientific method whenever possible:

- Background
- Question or hypothesis
- What you plan to do and what you did
- Method used and observations
- · Results: what you learned

All reports should be attached securely to the display.

<u>Posters</u>: Posters can be any size up to 28" inches by 22" inches when ready for display. <u>Example</u>: tri fold poster boards are not 28" inches by 22" inches when fully open for display.

<u>Team Entries</u>: To qualify for entry at the Nebraska State Fair team materials entered in robotics classes 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.

<u>Video</u>: Creating a video of your robot in action would be helpful for the judges but *is not mandatory*. Videos should be uploaded to a video streaming application and exhibitors should provide a hard copy QR code for viewing. State fair qualified videos should be submitted to https://go.unl.edu/2024nesfset by August 10th. Videos can also be uploaded to a video streaming application and exhibitors **MUST** provide a hard copy QR code for viewing. Exhibitors are encouraged to test their codes or links on several devices to check for appropriate permissions for public viewing.

Division 861

*Class H861001 Robotics Poster 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.

*Class H861002 Robotics Notebook 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'ers learning experience. The notebook should contain at least three pages. Topics could include a programming challenge, a programming skill, calibration, sensor exploration, or any of the topics suggested in Class 1.

*Class H861004 Robotics/Careers Interview 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 such as a short video 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 videos should be submitted to https://go.unl.edu/20243nesfset by August 10th. Videos can also be uploaded to a video streaming application and exhibitors MUST provide a hard copy QR code for viewing. Exhibitors are encouraged to 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 3-5 pages, double spaced, 12-point font, and 1" inch margins. Multimedia reports should be between 3 to 5 minutes in length.

*Class H861005 Robotics Sensor Notebook Write pseudo code 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 videos should be submitted to https://go.unl.edu/2024nesfset by August 10th. Videos can also be uploaded to a video streaming application and exhibitors MUST provide a hard copy QR code for viewing. Exhibitors are encouraged to test their codes or links on several devices to check for appropriate permissions for public viewing.

*Class H861007 Kit Labeled Robot (cannot be free programmed) and Notebook 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 constructed.

Included in the notebook should be:

- 1. Description of what the robot does
- 2. Pictures of programs the robot can perform
- 3. Why They chose to build this particular form
- 4. How they problem solved any issues they might have had during building and programming. A picture story of assembly is recommended.

State Fair-If robot is more than 15" wide and 20" tall they may not be displayed in locked cases.

*Class H861008 3D Printed Robotics Parts 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 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.

Robotics Showcase

State Fair Contest

General Instructions: Robotics Showcase

The 4-H Robotics Showcase is an opportunity for youth to showcase their Science, Technology, Engineering, and Math (STEM) talents by presenting their robot's 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:

- 1. Participants may enter as an individual or as a team. A team consists of 2-4 individuals.
- 2. Participants must be enrolled in a STEM Robotics project during the current 4-H year.
- 3. Participants should arrive at least 15 minutes prior to your assigned time to set up.
- 4. Participants must wear the State Fair 4-H T-shirt provided to them during the contest.

Advance State Fair Entry: Members must register in ShoWorks by August 10th.

Entry Fees: Refer to the general rules at 4h.unl.edu/fairbook/general/rules.

Contest Schedule:

- 1. Time slots will be determined following the advance entry deadline.
- 2. Specific competition times may be requested but cannot be guaranteed.

Participant Eligibility:

- 1. Contestants must be 8 years of age by January 1 of the current year.
- 2. Contestants must be 4-H members at the time of the contest.
- 3. Contestant eligibility will be verified by county Extension staff.
- 4. Participants are required to pay a non-refundable fee of \$5/person.
- 5. Participants will be notified of the location of the contest prior to State Fair.
- 6. General rules from the 4-H section of the Nebraska State Fair apply.

<u>Divisions</u>: Age divisions will be determined by their 4-H age, the age of the youth before January 1 of the current year.

• Junior: Ages (8-10)

• Intermediate: Ages (11-13)

Senior: Ages (14-18)

Division 500

*Class F500037 Robotics Video This class should be displayed in a notebook. The notebook should include a video clip on a CD/DVD 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. Entries should be submitted to https://go.unl.edu/2024nesfset by August 10th, or videos can be uploaded to a video streaming application and exhibitors MUST provide a hard copy QR code for viewing. Exhibitors are encouraged to test their codes or links on several devices to check for appropriate permissions.

*Class F500038 Build a Robot (may use kit) Include a robot and notebook including the pseudocodes for at least one program you have written for the robot, the robots purpose, and any challenges or changes you would make in the robot design or programming. If robot is more than 15" inches wide and 20" inches tall they may not be displayed in locked cases. We recommend that you submit the project under class H861003 - Robotics Video. Junk Drawer Robotics do not qualify.

STEM Electricity

Projects: Electric Excitement 1, Electric Excitement 2, Electric Excitement 3, Electric Excitement 4

General Instructions: STEM Electricity

In this category 4-H'er have the opportunity to 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.

<u>Labeling</u>: 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.

<u>Display Boards</u>: Several classes require a display board which should be a height of 24 inches and not to exceed ¼ 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' foot by 8'-foot sheet of plywood. Nothing should be mounted within ¾ inch of the top or bottom of the board.

- 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. Reports: Reports should be written using the scientific method whenever possible:
 - Background
 - 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.

Division 870

-Electric Excitement 1-

Classes 900-903 in this division are ineligible for State Fair

Class H870900 Bright Lights Create your own flashlight using items found around your house. Flashlights should be made out of items that could be recycled or reused. No kits please.

Class H870901 Control the Flow Make a switch. Use 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.

Class H870902 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. You must find five items that are conductors and five items that are insulators. Create a table that illustrates your results.

Class H870903 There is a Fork in the Road Use the following items to construct one parallel and one series circuit. Items: D Cell battery, battery holder, insulated wire, bulb holder and a 2 or 2.5 volt light bulb.

-Electric Excitement 2-

Classes 904-906 in this division are ineligible for State Fair

Class H870904 Case of the Switching Circuit <u>Use the Following Items</u>: Two D cell batteries, two battery holders, light bulb, bulb holder, a 3" inch x 6" inch piece of cardboard, six brass paper fasteners and approximately 2' feet of 24 gauge insulated wire to build a three way switch. Write a short essay or create a poster that illustrates how three way switches function.

Class H870905 Rocket Launcher Construct a Rocket Launcher Out of 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 stranded wire, 4 alligator clips, 2" inch x 6" inch 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 of the launcher. Create a poster using photographs to show the "step by step" process you used to build your launcher.

Class H870906 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 Plexiglass 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 you used to build your alarm.

-Electric Excitement 3-

*Class H870001 Electrical Tool/Safety Kit 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.

*Class H870002 Lighting Comparison Display studying the efficiency of various lighting (incandescent, fluorescent, halogen, light emitting diodes, etc). Exhibit could be a poster display, or an actual item.

*Class H870003 Electrical Display/Item 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.

*Class H870004 Poster 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-

*Class H870005 Electrical/Electronic Part Identification Display different parts used for electrical/electronic work. 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.

*Class H870006 Electronic Display Show an application of one of the concepts learned in the Entering Electronics project. Examples Include: Components of an electronic device (refer to p. 45 of the Electronic manual).

*Class H870007 Electronic Project Exhibit an electronic item designed by the 4-Her or from a manufactured kit that shows the electronic expertise of the 4-H'er.

Examples Include: A radio, a computer, or a volt meter.

*Class H870008 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.

4-Wheelin' Physics Fun

Division 875

Classes in this division are ineligible for State Fair

Class H875900 Poster Poster should exemplify one of the lessons learned in the 4-Wheelin' project. Posters can be any size up to 28" inches by 22" inches.

STEM Geospatial

General Instructions: 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.

<u>Labeling</u>: 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: Reports should be written using the scientific method whenever possible:

- Background
- 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.

Division 880

*Class H880001 Poster 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.

*Class H880002 4-H Favorite Places or Historical Site Poster 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.

*Class H880003 GPS Notebook 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.

*Class H880004 Geocache Assemble a themed geocache (physical geocache is REQUIRED with exhibit). Each geocache should be a water-tight 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 www.geocaching.com, include a print-out of its registry. The entry may include a photograph of the cache in its intended hiding place.

*Class H880005 Agriculture Precision Mapping 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 where applications can be purchased is acceptable). A report of how they analysis of the various data will be used to make a management decision. *Class H880006 4-H History Map/Preserve 4-H History 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://thinyurl.com/nominate4h. Write a brief description of historical significance of 4-H place or person. (a minimum of one paragraph)

*Class H880007 GIS Thematic Map Using any GIS software, create a thematic. 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. Use reliable date, (U.S. Center or U.S. Census Bureau, etc.) Map any size from 8.5" inches x11" inches 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.

*Class H880008 Virtual Geocache 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.

Small Engines

Projects: Small Engines 1, Small Engines 2, Small Engines 3

Division 890

Classes in this division are ineligible for State Fair —Small Engines 1—

Class H890900 Small Engine Display/Item Show an application of one of the concepts learned in the Unit One project. <u>Examples Include</u>: Identify the parts of a small engine, safety rules for starting a small engine, small engine repair tool identification.

-Small Engines 2-

Class H890901 Small Engine Display/Item Show an application of one of the concepts learned in the Warm It Up project. <u>Examples Include</u>: Comparison of engine oil types, transmissions, or safety related to engines. Exhibit could be a poster display or an actual item.

-Small Engines 3-

Class H890902 Engine Display/Item Should exemplify one of the lessons learned in the Tune It Up project. Examples Include: Diagnostic tools, fuel systems, ignition systems, etc. If a complete engine in 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.)

STEM Energy

Projects: The Power of Wind

General Instructions: 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. In addition, participants will make a display to go along with their findings.

<u>Labeling</u>: 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: Reports should be written using the scientific method whenever possible:

- Background
- 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.

<u>Posters</u>: Posters can be any size up to 28" inches by 22" inches when ready for display. <u>Example</u>: tri fold poster boards are not 28" inches by 22" inches when fully open for display.

Division 900

*Class H900001 Create and Compare Energy Resources Poster 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 x 22" inches.

*Class H900002 Experiment Notebook 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

*Class H900003 Solar as Energy Display/Poster Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' feet tall or 2' feet x 2' feet. 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.

*Class H900004 Water as Energy Display/Poster Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' feet tall or 2' feet x 2' feet. Include a notebook of why the item was designed and how it harnesses the power of water.

*Class H900005 Wind as Energy Display/Poster Item should be the original design of the 4-H'er. Include the item, or a picture if item is in excess of 6' feet tall or 2' feet x 2' feet. Include a notebook of why the item was designed and how it harnesses the power of wind.

*Class H900006 Other Nebraska Alternative Energy Notebook should explore Nebraska an 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 Woodworking

Projects: Woodworking Wonders 1, Woodworking Wonders 2, Woodworking Wonders 3, Woodworking Wonders 4

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 this category 4-H'ers will be better educated about the topic and better their woodworking skills.

General Instructions: STEM Woodworking

<u>Labeling</u>: 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. For State Fair-all outside projects MUST have entry tag and supporting information placed in protective bag to prevent damage from weather events such as rain and be ATTACHED to projects with string, zip ties, etc. (as appropriate).

Requirements:

- 1. All articles exhibited must include a plan (with drawings or sketch or blueprint) stating dimensions and other critical instructions a builder would need to know to build the project and 4-H'ers name and county.
- 2. Plans may include narrative instructions in addition to the dimension drawings and include any alterations 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.
- 3. All plans used for making the article must be securely attached and protected by a clear plastic cover.
- 4. 4-H'ers must be in Unit 3 or Unit 4 for the exhibit to be considered for State Fair.
- 5. All projects must have appropriate finish. If the project (i.e. picnic tables, wishing wells, swings, chairs, bridges, doghouses, etc.) is designed to be used outside, it will be displayed outside (at State Fair).

Division 911

—Unit One: Measuring Up— Classes 900-902 in this division are ineligible for State Fair

Class H911900 Unit 1 Woodworking Article Item made using hand tools and skills learned in the Measuring Up manual. <u>Examples Include</u>: Recipe holder, stilts or other skill level appropriate item. Items should be entered with construction plans.

Class H911901 Ten Sample Blocks Blocks of different kinds of wood. Each sample must have a 2 1/2" inch x 6" inch surface size and from 3/8" inch to 5/8" inch thick, to be firmly mounted on the board.

<u>Each Sample Must Be Identified With The Following Information</u>: Kind of wood, where grown, and main use or uses. Mount on board 24" inches high x 22" inches wide. Not over 1/4" inch rigid material. Other articles related to woodworking can be displayed but will require a sample of at least 10 units. These might include types of wood fasteners, types or grades of sandpaper, types of wood finishes, etc.

Each Sample Should Be Clearly Identified With The Following Information:

- 1. The kind, type or grade
- 2. Where or why it is used
- 3. The importance of these units in woodworking.

Class H911902 Unit 1 Woodworking Display Exemplifying one of the principles learned in the Measuring Up project. Examples Include: Butting up, gluing or sanding.

—Unit Two: Making the Cut— Classes 903-904 in this division are ineligible for State Fair

Class H911903 Unit 2 Woodworking Article Item made using power hand tools (i.e. electric jig saw, power drill, and/or oscillating sander) and skills learned in the Making the Cut manual. Examples Include: Birdhouse, foot stool, napkin or letter holder. Items should be entered with construction plans.

Class H911904 Unit 2 Woodworking Display Display exemplifying one of the principles learned in the Making the Cut project. Examples Include: Wood grain, chiseling, scroll saws or power sanders.

-Unit Three: Nailing It Together-

*Class H911001 Unit 3 Woodworking Article 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. <u>Examples Include</u>: Bookcase, coffee table or end table.

*Class H911003 Unit 3 Recycled Woodworking Display 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 of 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?)

*Class H911004 Composite Wood Project 60% of the project must be wood and 40% made from other materials such as metal, rubber, resin, etc. All plans and plan alterations 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

*Class H911005 Outdoor Wood Project made with Treated Wood Treated wood projects DO NOT have to have a finished coating. All plans and plan alterations must be attached to the article. Protect plans with a cover. If project is designed to be outside. Examples include: picnic tables, planters, outdoor furniture, etc.

*Class H911006 Wood Project made on a Turning Lathe 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.

-Unit Four: Finishing Up-

*Class H911007 Unit 4 Woodworking Article Item made using skills learned in the Finishing Up project. Examples Include: Dovetailing, making a pen using lathe, overlays, using a router, etc. Item is required to be appropriately finished.

*Class H911008 Unit 4 Recycled Woodworking Display 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 of 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. 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 you item solve the original need?)
- 7. Present results (How would you do this better next time?)

STEM Welding

Projects: Arc Welding

General Instructions: 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.

<u>Labeling</u>: 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. For State Fair-all outside projects MUST have entry tag and supporting information placed in protective bag to prevent damage from weather events such as rain and be ATTACHED to projects with string, zip ties, etc. (as appropriate).

General Information: 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 Stating:

- 1. Type of welding process (stick, MIG, TIG, Oxy-Acetylene, etc.)
- 2. Kind of weld
- 3. Welder setting
- 4. Electrode/wire/rod size
- 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. If no plans are included with welding article or welding furniture, item will be disqualified.

<u>Demonstration Displays</u>: 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.

Reports: Reports should be written using the scientific method whenever possible:

- Background
- Question or hypothesis
- What you plan to do and what you did
- Method used and observations
- Results: what you learned

All reports should include 4-H'er name and county, be computer generated and enclosed in a clear plastic cover. The reports should be attached securely to the display.

<u>Plans</u>: If plans are not included with welding art, welding article, welding furniture or composite welding project, item will be disqualified.

4-H Welding Tips and Suggestions:

CLASS 1

- 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" inches 2" inches wide and 3.5" inches 4" inches long. A good way to get this size is to buy a new cold rolled strap iron and cut it 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.

<u>Stick Welding</u>: Suggested coupon thickness—1/4" inch if using 1/8" inch rod; suggested rod—AC and DC straight or reverse polarity-first E-7014, second E-6013.

<u>MIG Welding</u>: Suggested coupon thickness—1/4" inch if using .035 wire and 1/8" inch if using .023 wire. Oxy-Acetylene: Suggested coupon thickness—1/8" inch; suggested rod—1/8" inch mild steel rod.

CLASS 2

- 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 and 1/4" 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.

CLASSES 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.

Division 920

*Class H920001 Welding Joints A display of one butt, on lap and one fillet weld.

*Class H920002 Position Welds A display showing three beads welded in the vertical down, horizontal and overhead positions.

*Class H920003 Welding Art Any art created using tack welds to hold the metal pieces together (examples include horseshow projects). Type of welder, welder settings, all plans, plan alternations, and bill for material must be attached to the article. Protect plans with a cove. If project is designed to be outside, it is required to have appropriate outdoor finish.

*Class H920004 Welding Article Any shop article or piece of furniture where welding is used in the 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.

*Class H920005 Welding Furniture 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.

*Class H920006 Plasma Cutter/Welder Design 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.

*Class H920007 Composite Weld Project 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. Project plans with a cover. If project is designed to be outside it is required to have an appropriate outdoor finish because project may be displayed outside.

Class 900 in this division is ineligible for State Fair

Class H920900 Plasma Cutter/Welder Design Article Item created for class H920006

Rope

General Instructions: Rope

Requirements: All rope must be mounted on 1/4" inch thick 24" inch x 32" inch wide plywood or equivalent board. Mount the knots in the same position as shown in the 4-H Rope Manual. All items placed on demo boards must be made according to instructions found in the 4-H Rope Manual EC7-01-79. Either manila or synthetic rope may be used.

When Halters are Exhibited, The Rope, Plus a Required Second Piece of Rope Must Show Any Three of the Following Items:

- 1. End Whipping
- 2. Eye Splice
- 3. Crown Splice
- 4. Rosebud Knot
- 5. Matthew Walker Knot
- 6. Diamond Knot

Exhibits for one entry shall be placed together for forming a display.

Division 940

-Knot Exhibits-

Classes in this division are ineligible for State Fair

Class H940900 Single Loop or Double Loop Halter for Sheep and Goats Use 3/8" inch rope. See above requirements for halter exhibits.

Class H940901 Single Loop or Double Loop Halter for Cattle and Horses Use 5/8" inch rope. See above requirements for halter exhibits.

Class H940902 Rope Display Exhibit at least ten (10) and not more than twelve (12) knots, hitches, splices (include two splices) made of 3/8" inch rope. Label and mount on plywood board (see above requirements). The end of all ropes must be shipped.

Leather Craft

Division 940

Classes in this division are ineligible for State Fair

Class H940903 Hand Tooled Article

Class H940904 Hand Stamped Article

Class H940905 Non-Tooled Leather Article

Class H940906 Tooled and Stamped Leather Article

Class H940907 Other Leather Article