



Nebraska Extension in Dakota County
1505 Broadway St.
PO Box 129
Dakota City, NE 68731
(402) 987-2140
FAX (402) 987-2160
www.dakota.unl.edu
aabts2@unl.edu

Nebraska Extension in Dixon County
57905 866 Road
Concord, NE 68728
(402) 584-2234
FAX (402) 584-3859
www.dixon.unl.edu
aabts2@unl.edu

Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska-Lincoln Extension educational programs abide with the non-discrimination policies of the University of Nebraska-Lincoln and the United States Department of Agriculture.

UNIVERSITY OF
Nebraska
Lincoln



2017-2018 4-H SCHOOL ENRICHMENT



NEBRASKA EXTENSION IN DAKOTA & DIXON COUNTIES

Supplemental youth activities to
enrich the classroom and club experiences



WHAT IS THE 4-H SCHOOL ENRICHMENT PROGRAM?

Dear Dakota and Dixon County Educators,



The 4-H School Enrichment program is a great opportunity to supplement educational objectives with “hands-on learning”. It can make your classroom or 4-H club meeting a fun and exciting learning environment!

The 4-H School Enrichment program provides information from the University of Nebraska-Lincoln and other land-grant universities to the young people of Dakota and Dixon Counties through a collaboration between the school and extension.

The materials used in 4-H are based on research and produced by specialist from the University of Nebraska, National 4-H Office and various universities and organizations throughout the United States. The lessons use the Experiential Learning Model: Do, Reflect, and Apply to develop critical lifeskills. For most 4-H School Enrichment programs, an Extension staff member will teach the lessons, but resources may include the following: include teacher guides, student manuals, and teaching kits.

As 4-H participants, your students also have the opportunity to take part in 4-H activities outside the classroom. Camps, specials events, contests, and the Dakota-Thurston County Fair and the Dixon County Fair are a few additional activities students may participate in. For more information, please contact the Nebraska Extension in Dakota County or Dixon County. Hope to hear from you soon!

Sincerely,

Angela Abts,
Extension Educator
4-H & Youth Development

Registration Form

Return to:

Nebraska Extension in Dakota County; 1505 Broadway; PO Box 129; Dakota City, NE 68731-0129
E-Mail: aabts2@unl.edu Website: www.dakota.unl.edu

Teacher _____ Grade _____

School _____ E-Mail _____

Best time to call: _____

Project Enrollment

_____ (# of students) x _____ = \$ _____

_____ (# of students) x _____ = \$ _____

_____ (# of students) x _____ = \$ _____

List the projects you want to enroll in and month you prefer

1. _____ Month _____

2. _____ Month _____

3. _____ Month _____

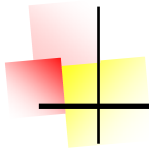
4. _____ Month _____

Statistics: (needed for state reports)

Male _____ Female _____

Caucasian _____ African-American _____

American Indian _____ Hispanic _____ Asian _____



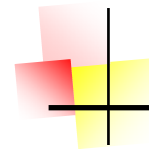
4-H School Enrichment

The Dakota & Dixon County 4-H School Enrichment Program is an excellent opportunity for students to experience “hands-on” learning through research-based curriculum. Please contact the office as soon as possible to schedule a program with your classroom, organization, or your 4-H club meeting. If you have any questions, please be sure to contact the Nebraska Extension Office in Dakota County at (402) 987-2140 or aabts2@unl.edu. Hope to hear from you soon!

The Dakota and Dixon County Extension Offices also provide several programs in the summer months: Summer Day Camps, Ponca Day Camp, You’re the Boss, Big Red Academic Camp (UNL Campus for 9th to 12th graders), and several overnight camps in Nebraska. Please contact the office for more information.



Nebraska Extension in
 Dakota County
 1505 Broadway
 PO Box 129
 Dakota City, NE 68731-0129
www.dakota.unl.edu
 Phone: 402-987-2140
 Fax: 402-987-2160
 E-mail: aabts2@unl.edu



4-H School Enrichment

Table of Contents

Lesson	Page	Grade
Handwashing	4	K-1st
Butterflies	4	K-2nd
WeDo Robotics	5	2nd-3rd
Money Cents	5	2nd-3rd
Wheat Science	6	3rd-5th
Fast Foods!	6	3rd-6th
Junior Master Gardener	7	3rd-5th
Pizza and Agriculture	8	4th
National Science Experiment	8	5th-12th
EV3 Robotics	9	3rd-12th
Power of Wind	9	5th-12th
GPS	10	3rd-12th
Focus on Citizenship	10	6th-12th
Real Colors	11	8th-12th
Seven Habits for Highly Effective Teens	11	9th-12th
Aqua Fest	13	5th
Secrets of Service on the Job	14	5th-6th
Real World-Money	15	7th-8th
Northeast Nebraska Career Day	16	10th
Summer Camp Opportunities	17	
Visit UNL Campus	17	
Registration Form	19	

Handwashing



Kindergarten to 1st Grade
 One lesson—45 minutes
 Cost: \$25.00 per classroom
 Glo-Germ is a fun interactive way for children to learn about the benefits of hand washing. Students will listen to a story about germs and then practice washing their hands with an UV fluorescent potion mixed in a special hand lotion or powder. The potion will glow when shown under the black light.
 * If your school is 50% or more free and reduced lunches, your classroom qualifies for the free hand-washing program provided in September.

Nebraska School Standards
 Science: 2.1.1.a & 2.1.1.b
 Health: 1.1 & 1.6

Butterflies

Kindergarten through 2nd Grade
 Lesson-(Will take approximately four weeks to hatch)
 Cost: \$30.00 per classroom (cost for larvae)

Watch a painted Lady Butterfly larvae hatch in front of your eyes. It will take approximately four weeks for the larvae to hatch. Please contact the office as soon as possible to assure your classroom receives materials in a timely manner.



Nebraska School Standards
 Science: 2.1.1.b, 2.1.1.e, & 2.1.1.f

Summer Camp Opportunities

There are several summer learning opportunities offered through UNL Extension. The favorite camp is robotics. Students learn how to build and program an EV3 Robot and WeDo Robots. The camp has been held in several locations. For more information, please contact the office.



For more information about becoming a student of UNL, please contact the Nebraska Extension Office in Dakota or Dixon County or visit the website at <http://admissions.unl.edu/>. There are several campus visit options.

Here are a few ways for students to check out UNL:

- **Husker Weekday Visits**
 Free campus visit open to any student and their guests. Reservations are required, so reserve your space early.
<http://admissions.unl.edu/events/on-campus/husker-weekdays.aspx>
- **Red Letter Days**
 Tour of campus and residence halls. Cost: \$10 per person. Visit the website to pick your day.
<http://admissions.unl.edu/events/on-campus/red-letter-days.aspx>

Northeast Nebraska Career Day

10th Graders

All day event (9:00 a.m. to 2:30 p.m.)

Cost: \$1.00 per participant & bring their own lunch

October 17, 2017 (Registrations due in September 2017)

Wayne State College Campus (Wayne, NE)



Preparing for careers can be a challenge today, especially for high school students. The Northeast Nebraska Career Day will assist high school sophomores with the multitude of careers available in today's society. Students will attend break-out sessions to learn about several career options they are considering from local speakers to share their passion for their career choice and education needed.

For more information, please contact the Dakota County Extension Office at (402) 987-2140.

**Make Nebraska Extension and 4-H
your first college experience!**

WeDo Robotics



2nd & 3rd Grades

Four-60 minute sessions

Cost: \$30 per classroom

Your students will learn and apply STEM education as they build and program several models using the Lego WeDo interactive kits.

Lesson Themes (WeDo kits)-2nd grade

- Amazing Mechanisms (using pulley, levers, etc.)
- Exploring Wild Animals (using sensors)
- Playing Soccer (using levers & mathematics)
- Adventure Stories (using sensors & language arts)

Lesson Themes (WeDo 2.0 kits)-3rd grade

- Milo, the Science Rover (pulley & sensor)
- Pulling (force & friction)
- Speed (speed & acceleration)
- Frog's Metamorphosis (life cycle)



Money Cents



2nd to 3rd Grades

Three to four lessons—45 minute sessions

Cost: \$25.00 per classroom

You are never too young to start learning how to spend and save money. This program will help students learn more about money through listening to stories and doing "hands-on" activities. Topics will include: examining money under a magnifying glass, learning what the government role is, discussing the difference between needs and wants, thinking about their savings dream and playing a "how much does it cost" game.

Nebraska School Standards

Math: 4.1.2a & 4.1.3b

Social Studies: 4.9

Wheat Science

3rd to 5th Grades

One lesson—2 1/2 hours

Cost: \$1.00 per student (students work in groups of 3)



Wheat Science enrichment program is designed to teach students the journey of the wheat field to the table. This lesson can be inter-grated into multiple curriculum units- Nebraska history, agriculture, nutrition, math, science, etc. Students will find this to be a fun activity, because of the hands-on experience in making bread.

- Teachers will need to contact school kitchen personnel to schedule use of the kitchen for baking.

Nebraska School Standards
Social Studies: 4.5

Fast Foods!

3rd to 6th graders

Four lessons—45 minutes

Cost: \$5.00 per classroom (per visit)

Fast Foods is a curriculum to help students gain an interest in eating healthy foods and to encourage activity as part of their lifestyle. Students will explore the food groups and enjoy a healthful snack from the food topic of the week. (Grains, Vegetables & Fruits, Milk, and Meat & Beans)



Nebraska School Standards
Health: 2.2

Real World-Money



7th & 8th Graders

All day event (9:00 a.m. to 2:30 p.m.)

Cost: Contact the office & bring their own lunch

April 2018 (Registration due early March 2018)

Lifelong Learning Center; 601 E. Benjamin Avenue; Norfolk, NE

This interactive financial management program is designed to help 7th grade or 8th grade students become better prepared to make financial decisions as young adults.

Students will experience the following break-out sessions. They are divided into two groups.

Real World-Money (2 hours). Students will participate in a real-life simulation where they are individuals or families managing finances in the “REAL WORLD.”

Credit for Today (1 hour). Students will learn the impact of credit used today on lifestyle tomorrow.

Money and the Mind (1 hour). Making the first car purchase is used to illustrate the impact of the mind on decisions made as teens and students

*** Schools should bring one adult for every ten students.**

Schedule for the day

- 9:00 am Registration
- 9:30 Break-out sessions
- 11:30 Lunch
- 12:00 pm Break-out sessions
- 2:00 Group Processing and Evaluation
- 2:30 Safe Trip Home

Please contact the extension office at (402) 987-2140 or visit the following website to learn more about this experience at <http://nerec.unl.edu/4h/programs.shtml>

Nebraska School Standards
Social Studies: 8.3.5

Secrets of Service on the Job

5th & 6th Graders

All day event (8:30 a.m. to 2:15 p.m.)

Cost: Contact the office & bring their own lunch

February 2018 (registrations due in early February 2018)

Lifelong Learning Center; 601 E. Benjamin Ave; Norfolk, NE

This is an interactive character education program focusing on entrepreneurship and designed to enable youth to develop knowledge and life skills for enhancing ethical and responsible behavior in the business world and community.

Participants will:

1. Reinforce the “Six Pillars” of Character.
2. Provide a creative avenue for youth to express their view on character in business.
3. Design a business as a team.
4. Buy and sell a product.
5. Have fun while learning together.

Schools must bring one adult to work with every ten students or portion of ten students.

Nebraska School Standards

Social Studies: 4.8, 4.9, & 8.3.5

Language Arts: 4.3.1

Math: 4.1.3 & 5.1.3

FCS: 06-12.11.1



For more information about this event, please contact the Dakota County Extension Office at (402) 987-2140 or visit the website at <http://nerec.unl.edu/4h/programs.shtml>.

Junior Master Gardener



3rd to 5th graders

Choose from the six or more lessons below—45 to 60 minutes

Cost: \$1.50 per student (per visit)

Discover the fun of learning about the needs of plants and garden basics through hands-on activities and a fun story.

Stories will include the following:

Plantzilla by Jerdine Nolen

- * Build a Monster Flower
- * Grow a Sproutzilla

Miss Rumphius by Barbara Cooney

- * Determine the best soil to grow plants
- * Explore wild flowers

Brother Eagle, Sister Sky

- * Understand the interrelatedness of life on earth
- * Learn about different cultures

The Gardener by Sarah Stewart

- * Color in the garden
- * Cheaper to buy or grow

Tops & Bottoms by Janet Stevens

- * Explore where food grows on plants
- * Enjoy a veggie snack

Weslandia by Paul Fleischman

- * Build a sundial



Nebraska School Standards

Science: 5.3.1

Pizza and Agriculture



4th Graders

One lesson—45 to 60 minutes

Cost: \$25.00 per classroom

Have you every seen a pizza tree? A pizza bush? Slices of pizza planted in a garden?

Yet pizza is a food made up of products grown in Nebraska. Your students will learn about how each of its ingredients can be grown on Nebraska farms. This would be a great activity in the month of March for National Agriculture Month. Students will enjoy making pizza quesadillas.

Nebraska School Standards

Social Studies: 4.5

National Science Experiment

5th to 12th Graders

One Lesson

Cost: \$25.00 per classroom



If you've ever wondered how wearable technology like the FitBit or the Apple Watch work, this year's challenge is for you! Called Incredible Wearables, the challenge will have your classroom to work together as an engineering team to build a functioning health monitor using a small computer and low cost sensors.

Nebraska School Standards

Science: 12.1.1

Aquafest

5th Graders

Morning Event (9:30 a.m. to 12:30 p.m.)

Cost: No charge

May 2018 (registrations due in early 2017)

Wayne State College Campus

Students will be involved with hands-on activities as they learn about our precious resource: **WATER**



Participation with Wayne State

College, UNL Northeast

Research & Extension Center,

Natural Resource Conservation

Services, & UNL Extension Offices in: Cedar, Dakota,

Dixon, Wayne, Thurston, and Pierce Counties.

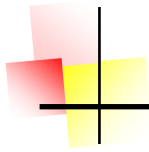
Support from the Natural Resource Districts: Lewis & Clark, Lower Elkhorn, & Papio Missouri River

Please contact the Dakota County Extension Office for more information about this educational experience at (402) 987-2140.

* Adult sponsors may need to assist with the activities for the day.

Nebraska State Standards

Science: 5.4.2



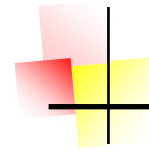
What is Nebraska 4-H?

4-H is a community of young people, ages 5-19, across America who are learning leadership, citizenship, and life skills. 4-H is education for life that uses a learn-by-doing approach. In Nebraska, 4-H is present in ALL 93 counties across the state! For over 100 years, youth and adults have been working together-learning, doing, growing, and serving. Today, 4-H in Nebraska reaches approximately one in three of our state’s youth. Educational opportunities have expanded over the years in order to build skills relevant for twenty-first century youth.

The Northeast District has been offering several programs for schools to attend such as “Aquafest” and “Secrets of Service on the Job” just to name a few. Please consider joining other Northeast Nebraska Schools with this great opportunity provided by Nebraska Extension and other partners. Contact the Nebraska Extension Office in Dakota County for more information or visit the website at www.dakota.unl.edu or <http://nerec.unl.edu/northeast4h>.

Nebraska 4-H & Youth Development focuses on

- * College & Career Readiness
- * Community Development
- * Healthy Living
- * Entrepreneurship
- * Leadership Development
- * Food Supply Confidence
- * STEM



EV3 Robotics

3rd through 12th Graders
Minimum of three lessons—60 minutes each (preferred three and more lessons)
Cost: \$30.00 per classroom



Students will learn to create simple computer programs using the LEGO® MINDSTORMS® kits. They will also learn how to build Simplebot and complete hands-on challenges while working in groups.

Nebraska School Standards
Science: 12.1.1

Power of Wind

5th through 12th Graders
Three lessons—60 minutes each
Cost: \$25.00 per classroom



Students will learn to about the wind and its uses. Youth work with members of a team to design, create, build, and test a wind powered devices and are given opportunities to explore wind as a potential energy source in their community.

Nebraska School Standards
Science: 12.4.3c

GPS

3rd through 12th Graders
One Lesson-1 1/2 hours
Cost: \$25.00 per classroom



What does GPS stand for?
Have you ever wanted to learn how to use a GPS unit? Be prepared for a fun day of learning about a compass and a GPS unit. Students will have an opportunity to practice geocaching using a GPS unit.

Nebraska School Standards
Social Studies: 4.10

Focus on Citizenship

6th through 12th Graders
Eight Lessons—45 to 60 minutes each
Along with a classroom community service project
Cost: \$25.00 per classroom



This is a hands-on experience to engage youth in their communities. Youth will focus on four aspects of citizenship, civic engagement, civic education, personal development and service. Building on personal strengths, youth will learn more about citizenship, assess community needs, and plan and conduct a service learning project of their choice in their communities.

Nebraska School Standards
Social Studies: 5.3.2, 8.3.7 & 12.3.9

Real Colors

8th through 12th Graders & Adults
One Lesson-2 to 3 hours
Cost: \$8.00 per student



Have you ever wondered why people do the things they do? Everyone will learn about their temperament or “color” to develop more effective communication skills and build relationships.

Nebraska School Counseling Programs
Skills for Living (Personal/Social Development)

* Students will acquire the knowledge, attributes and interpersonal skills to help them understand and respect self and others.

Seven Habits for Highly Effective Teens

9th through 12th Graders
Eleven Lessons-45 minutes each
Cost: \$15.00 per student



Students will learn the seven habits identified by Stephen Covey with interactive activities. The seven habits can help students improve relationships with family and friends; recognize and prioritize their goals; find balance between school, work, friends; and much more.

Nebraska School Counseling Programs
Skills for Living (Personal/Social Development)

* Students will make decisions, set goals and take necessary action to achieve goals.