



Nebraska Extension in Webster County

Located at Webster Co Court House

621 N Cedar Street

Red Cloud, NE 68970

402-746-3417

<http://webster.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.

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School Education Programs

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What are School Education Programs?

School education programs are learning experiences offered to students during school hours by local 4-H educators. These programs are designed to enhance the subject matter being studied in the classroom, provide hands-on education, introduce a new topic to students, or spark a new interest!

The 4-H school education program is a great way to connect and collaborate with your local Extension office and achieve your classroom's educational goals. Our current programs focus on Career Development, STEM, and Agricultural Literacy.

The cost to your classroom is minimal. If interested, please email our staff or complete the registration form included and return it to Nebraska

Extension in Webster County. We would love to meet with you to discuss your classroom's educational goals, and we look forward to working with you and your students!



Meet Our Staff



Beth Janning
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Katie Bolte
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Career Development



What Animal Type Are You?

Have you ever asked a youth “If you were an animal what kind would you be?” I invite you to have fun and educational experience in learning about personality types. During this presentation youth will evaluate how they react, understand other’s reaction, how to work positively with other and practice what they have learned. Now let’s find out who are Roosters, Raccoons, Golden Retrievers and Owls in the classroom.

Suggested Grade Level: 4 – 6

Time Needed: 45 minute lesson

Program Cost: \$5 per classroom

Educators: Beth Janning



INVENTURE

The INVENTURE program will ignite an entrepreneurial spark in your students! Working in teams, they will create a product or service from a widget and learn basic business principles throughout the process. The capstone of the INVENTURE program will consist of teams pitching their business idea “Shark-Tank” style. This is a full day on-site or off-site school program for 50-125 students.

Suggested Grade Level: 5-8

Standards: A complete list is available upon request.

Program Cost: \$15 per student

Educator: State Wide Team

*The INVENTURE program is also available as an in-classroom program or after-school program. Four program sessions will be provided, utilizing 45 minutes per session. Program cost: \$20 per classroom or \$5 per student for an after-school program.



Entrepreneurship Investigation

This is a three unit series with several parts to each unit. This can be a one-time program or be a series based on the needs of the classroom.

1. Unit I: Discover the E-Scene - Youth discover their own talents, interests and hobbies as they find out what it takes to be an entrepreneur. Youth evaluate risk and learn how to write S.M.A.R.T. Goals.
2. Unit I: Strengths Explorer - Use Gallup's Strengths Explorer to identify youth's top three themes of talent to assist in diving deeper into youth's strengths by completing an online assessment.
3. Unit II: The Case of ME - Youth learn about reputations, playing the part, value of time, investing the sale and staying business
4. Unit III: Your Business Inspection - Discover the possibilities in your local community before putting your business into action. The ending goal of this unit is to have a business ready to open.

Suggested Grade Level: 4 – 6

Standards: Nebraska Standards for Career Readiness

Time Needed: 45 minute lesson

Program Cost: \$5 per classroom

Educators: Beth Janning or Katie Bolte

Registration Form

Please email to our staff



Teacher Name: _____

Email _____

School _____ Grade _____

Phone number _____ Best time to call: _____

List School Enrichment programs you are requesting and the month you prefer: (only 3 per teacher)

1. _____ Month _____

2. _____ Month _____

3. _____ Month _____

School Enrichment Program Fees:

- { See individual program for the fee.
- { Embryology programs are offered in the Spring (March-May).

Statistics (needed for state reports)

List # of students in each category:

Total # of students _____ # of Hispanic students _____

Male _____ Female _____

Ethnicity:

White _____ Black _____ American Indian/
Hawaiian/ Alaska Native _____

Asian _____ Pacific Islander _____

Residence:

Farm _____ Town/
Rural _____ City _____



Mobile iGrow Educational Displays

Take a break and “Go Mobile” with your classroom students! Bring your students to the Mobile iGrow interactive display that can be set up in your school. These traveling displays are available for 2 ½ weeks at a time, and will focus on different topics in agriculture. 4-H staff members will set up/take down displays and utilize the space you have available. Included with the displays are:

- A teaching guide to assist educators in leading a student discussion focused on display concepts.
- An activity sheet, tied to concepts from the displays, provided for all students. It can be used in the classroom or given as a take-home sheet for families.

Complete unit correlates to Nebraska State Standards

Mobile iGrow displays and resources are funded by the AKSARBEN Foundation. These resources are FREE to Webster County Schools. Contact the Extension Office to get your school on the schedule 2019.



► Survey results showed that 100% of students learned more about corn and have a better understanding of agriculture after the Mobile iGrow display.

► Local teachers commented: “They loved it! Hands-on and authentic learning in action.” “I hope we get more opportunities to do this.”

Take your students on a mini field trip... without leaving your school!



STEM



Microbes Among Us!

Achoo! How do you keep a classroom healthy during cold season? This program is your answer. Explore proper hand washing, preventing the spread of germs and where germs are located. Presentation includes a hands-on demonstration of proper and improper hand washing using GLO-GERM powder and a black light.

Suggested Grade Level: K - 2

Time Needed: 1 session, 30 minutes

Program Cost: \$5 per classroom

Educator: Beth Janning or Katie Bolte



Hack Your Harvest

2019 National 4-H Youth Science Experiment

Students will be introduced to the concepts of automation and efficiency and teach the basic principles of writing instructions for computers to follow. In three parts, students complete challenges based on programming a tractor to move across their board. At the end, students get to create their own challenge for others to solve. No computers or technology is needed for this coding lesson.

Suggested Grade Level: 3 - 5

Time Needed: 45 minutes Program

Cost: \$5 per classroom

Educators: Beth Janning



STEM



Embryology



This program teaches students how life develops through the process of hatching baby chicks over a **four-week** period. Students will take responsibility for caring for the fertilized eggs during the 21-day incubation and the baby chicks after they hatch (for a few days). The program is offered March - May. ~100% of surveyed teachers stated that the embryology program enhanced science-based learning in their class- room!

Suggested Grade Level: 3 – 5

Standards: SC.3.9.3, SC.4.6.3, SC.5.8.2

Time needed: Two 25-30 minute presentations, about 10 days apart.

Program Cost: \$15 per incubator

Educators: Katie Bolte



*"Do chickens have
tongues?"*

"Can they lick you?"



Agriculture



AgCiting Science

Dive into Nebraska agriculture through a single or a series of sessions that highlight livestock, natural resources, food, and plant science. A total of 10 sessions are available for selection. Youth learn about the different Nebraska agriculture crops, germination, farm to plate concepts, and the science within agriculture. Topics include: Hot House Detective, My Hamburger Came From the Farm, Nebraska Farm in a Glove, Our World, Pizza Pizza, Positively Popcorn, Pumpkin Life Cycle and more. Presenter can come in once or may complete the entire series.

Suggested Grade Level: 3-5

Time Needed: 30 minutes per session

Program Cost: \$5 per classroom for one session or \$10 per series

Educators: Beth Janning or Katie Bolte

Agriculture



Seed in a Bag

Youth will learn what plants need to live and will walk away with a seed necklace to watch germination happen.

Suggested Grade Level: K-2nd

Time Needed: 20 minute program

Program Cost: \$5.00 per classroom

Educators: Katie Bolte or Beth Janning



Ag Walk’N Across Nebraska

Through a Virtual Field Trip, youth experience Nebraska to understand the unique aspects of Nebraska; differences in geography, precipitation, and soil types to discover how they impact Nebraska agriculture. This is part of the Nebraska Scientist – Nebraska Extension Program.

Date: April 2, 2020

Suggested Grade Level: 4

Standards: SS 4.3.1.c, SS 4.2.2, SS 4.2.12

Time Needed: 45 minutes

Program Cost: Register Online

<https://marketplace.unl.edu/extension/>

Educator: Beth Janning

STEM



DNA In Our Strawberries

Youth will use strawberries to gain an understanding of DNA & how enzymes work. Students walk away with a better understand of biotechnology in relation to our food.

Suggested Grade Level: 6

Time Needed: 1 session, 30 minutes

Program Cost: \$5 per classroom

Educator: Beth Janning



GPS Exploration

Youth will acquire knowledge about Global Positioning Systems (GPS), map terminology and GPS uses in agriculture. Youth will geocache by reading longitude and latitude on a GPS unit.

Suggested Grade Level: 5th or 6th

Time Needed: 45 minute program

Cost: \$5 per classroom

Educator: Beth Janning



STEM



Engineering Today!

Youth will discover ways engineers communicate with one another – then students will design, build, and test their team’s inventions from everyday items.

Suggested Grade Level: 3 - 4

Time Needed: 45 minutes Program

Cost: \$5 per classroom

Educators: Beth Janning



Get Things Rolling

Youth will learn how friction plays a key role in motion and movement before designing and building their own Clipmobile. Students will use engineering skills to determine complexity, efficiency, capacity, and cost/budget.

Suggested Grade Level: 5 - 6

Standards: ETS1 Engineering Design, SS 5.2.1

Time Needed: 45 minutes Program

Cost: \$5 per classroom

Educators: Beth Janning

Expanded Learning Opportunities

This is a full day program to provide students with an in-depth learning experience.



Animals Inside and Out

Animals Inside & Out is designed for elementary students to explore the science of animals. The Animals Inside & Out program is offered to Webster County schools in partnership with Raising Nebraska. Pigs, cows, dogs and more will be a part of the day as students learn about animal health and how an animal's body works inside and out. Students have the opportunity to think like a veterinarian as they learn about the muscles, bones, digestive system, and how animals' lungs and hearts work together.

Throughout this day-long program, students will have hands-on activities and games that enhance learning and opportunities to learn more about animals and where their food comes from. They also have the opportunity to explore careers related to animal science and agriculture.

Grade Level: 5th

Cost: FREE, bring a sack lunch

Location: Bladen, Webster Co
Fairgrounds

*Plana field day
experiencewithus!*

