COLFAX COUNTY 4-H SCHOOL ENRICHMENT PROGRAMS

2020—2021

NEBRASKA EXTENSION-COLFAX COUNTY

EXTENSION
Colfax County

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Nebraska 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 Sates Department of Agriculture.

The 4-H Youth Development program abides with the nondiscrimination policies of the University of Nebraska - Lincoln and the United Stated Department of Agriculture .

Colfax County School Enrichment Request Form

Please complete the following form and return it to the Nebraska Extension in Colfax County Office as soon as possible. Programs may be requested anytime throughout the year, however, we do request a two week advance notice if at all possible. This is to ensure that the programs are available during your requested time. Please indicate approximate date you will need the program.

Teacher's Name:_____Grade:_____

School:_____#Students:_____

Telephone:_____

Email:_____

Best Method of Contact: Phone: _____ Email: _____

Please list any special needs or food Allergies:

_____

I am interested in the following
School enrichment program(s) for my class:

O Real World Money
O Secrets of Service on the Job

Return form or call us to schedule:

O Lifecycle of A Ladybug (Spring) Date Requested:_____
O Agriculture & ME Date Requested:_____
O Where Does My Food Come From? Date Requested:_____
O Lifecycle of A Butterfly (Spring) Date Requested:_____
O Sprouting Success (Spring) Date Requested:_____
O Hand Washing Date Requested:_____
O The Pumpkin Life Cycle (October) Date Requested:_____
O Positively Popcorn (Fall Semester) Date Requested:_____
O Embryology (Spring) Date Requested:_____
O Ozobot Robotics Date Requested:_____
O LEGO Robotics Date Requested:_____
O Junk Drawer Robotics Date Requested:_____
O Engineering is Elementary Date Requested:_____
O 4-H STEM Challenge Date Requested:_____
O Money Makes Cents Date Requested:_____
O Leadership Summit Date Requested:_____
O Circuits Date Requested:_____

Return to Nebraska Extension in Colfax County
P.O. Box 389, 466 Road 10
Schuyler, Ne 68661
Online Registration: https://go.unl.edu/school-enrichment-registration

What is 4-H School Enrichment?

Cooperation between schools and Nebraska Extension has existed for many years in Colfax County, complementing the educational goals of both organizations. The 4-H School Enrichment Program uses materials that are research-based and produced by specialists from the University of Nebraska—Lincoln, the National 4-H Council and various universities and organizations throughout the United States.

4-H School Enrichment resources include teacher guides, student manuals, multi-media tools, teaching kits, and staff presentations. The Nebraska Extension in Colfax County staff can teach the project to the students in the classroom or provide the materials to the teacher to use.

As 4-H participants, your students will also have the opportunity to take part in 4-H activities outside the classroom. Camps, special events, and the Colfax County Fair are a few additional activities students may participate in.

The cost to participate in 4-H school enrichment is minimal to no cost. If you are interested, please fill out the attached registration form and return to Nebraska Extension in Colfax County Office as soon as possible. Programs are scheduled on a first come first serve basis.

Thank you!

Julie Kreikemeier
4-H Youth Development
Extension Educator

Special Events

Real World—Money -

Suggested grade levels: **7th or 8th grade**

One Full Day

This is an interactive financial management program, designed to help students become better prepared to make financial decisions as young adults. This program is held in the spring of each year. For more information please call the Nebraska Extension in Colfax County Office at (402) 352-3821.

2021 Date: TBA

Secrets of Service on the Job -

Suggested grade levels: **5th or 6th grade**

One Full Day

This is an interactive character education program focusing on entrepreneurship. It is designed to enable youth to develop knowledge and life skills needed for enhancing ethical and responsible behavior in the business world and community. This program is held at the end of winter each year. For more information please call the Nebraska Extension in Colfax County Office at (402) 352-3821.

2021 Date: TBA

Circuits -

Suggested Grade Levels: **4th through 6th grades**

Three, 45 minute sessions

Explore the electrifying world of circuits through the discovery of conductors, insulators, and circuits! Students will participate in a variety of activities which explore the flow of electricity and circuits through the use of *Snap Circuits*!

For further information on any of these programs, or for assistance with any other programming needs, please contact:

Nebraska Extension in Colfax County

P.O. Box 389

466 Road 10

Schuyler, NE 68661-0389

Phone: 402-352-3821

Fax: 402-352-3826

Email: julia.kreikemeier@unl.edu

Web: www.colfax.unl.edu

Money Makes Cents -

Suggested grade levels: **2nd through 4th grades**

Five, 45 minute sessions (each topic)

Money Makes Cents will help youth gain a better understanding of money and money fundamentals! Youth will have the opportunity to learn about six different topics about money. Topics include: history of money, managing money, earning money, spending and saving money, checks, balances and credit.

Leadership Summit -

Suggested Grade Levels: **5th through 8th grades**

Five, 45 minute sessions

At a critical time when early middle school students choose to take the wrong "trail" in life, help prepare them to be tomorrow's leaders and role models through Leadership Summit! Middle school youth will see the world from a new perspective and learn to be more effective leaders as well as team members after participating in this program. Leadership discovery and personality trait assessment sessions followed by engaging interactive leadership development activities will build knowledge of interpersonal and teamwork skills.

Life Cycle of A Ladybug -

Suggested grade level: **Kindergarten**

Four, 40 minute sessions (Spring Semester)

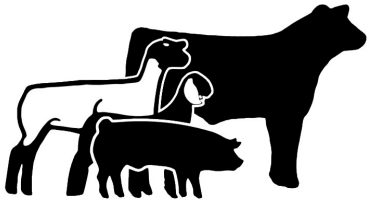
Life Cycle of a ladybug gives students the chance to witness the life cycle of ladybugs as they watch them mature from larvae to adult ladybugs. This project requires three weeks to complete and should be done in mid-late April—May for best results. Students will have the opportunity to release their ladybugs during their last session!

Agriculture & Me -

Suggested grade level: **Kindergarten**

Two, 45 minute sessions

Students will gain an understanding what agriculture commodities create the food they eat everyday. By creating a short booklet, students will be able to illustrate what they have learned. (For Example, today's wheat can be tomorrow's bread. Today's beef cow can be tomorrow's hamburgers.)



Where Does My Food Come From?

Suggested grade level: **1st grade**

Three, 45 minute sessions

As our society continues to be generations removed from the farm, having this level of understanding is becoming increasingly important. As a result of this program, youth will understand how their favorite foods end up on their plate or in their lunch box and youth will gain an understanding where their food comes from!

Life Cycle of a Butterfly -

Suggested grade level: **1st grade**

Four, 40 minute sessions (Spring Semester)

Lifecycle of a Butterfly gives students the chance to observe the butterflies transform from caterpillars to chrysalides to butterflies with their own butterfly observation habitat. This project requires three weeks to complete and should be done in mid-late April-May for best results. Students will have the opportunity to release their butterflies during their last session!

Engineering is Elementary -

Suggested grade levels: **1st through 5th grades**

Three - Four, 45 minute sessions (each topic)

Youth will be challenged to create and problem solve exciting engineering topics. Youth will put to work their engineering skills to try possible solutions to the presented problem. Youth will have the chance to discover their passion for engineering and build their confidence in this area.

Topics for the 2020-2021 school year are:

- Bridges (4 lessons)
- Pollinators (3 lessons)

4-H STEM Challenge-

Suggested grade levels: **3rd through 6th grades**

Three, 45 minute sessions

The race to land humans on Mars is on! The 2020 4-H STEM Challenge will explore sending a mission to Mars with the activity, *Mars Base Camp*. Developed by Google and Virginia Cooperative Extension, *Mars Base Camp* is a collection of activities that teaches kids ages 8-14 STEM skills like mechanical engineering, physics, computer science, and agriculture.

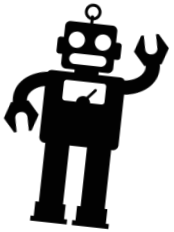
MARS BASE CAMP
4-H STEM CHALLENGE

LEGO Robotics -

Suggested grade level: **4th through 8th grades**

Six, 45 minute sessions

Hands-on activities using LEGO EV3 Robotics kits and software youth will learn how to design and build a robot using LEGO EV3 Robotics kits. The LEGO Mindstorms software enables students to learn simple programming with computers. This program teaches problem solving, critical thinking, decision making, teamwork, command actions, and technical skills.



Junk Drawer Robotics -

Suggested grade levels: **4th through 8th grades**

Three, 45 minute sessions

Watch as your students utilize the engineering design process to test force, distance, balance, and understand the function of robotic movement. Youth will be given everyday materials such as: rubber bands, paper clips, tongue depressors, pennies, and more to put these concepts to the test!

Sprouting Success -

Suggested grade level: **2nd grade**

Two, 45 minute sessions, four days apart
(Spring Semester)

Students will gain an understanding about what plants need to grow by watching edible sprouts grow over the course of five days and watching the physical changes each day. At the end of the week, students will have the opportunity to taste-test their sprouts. Time is required daily for students to rinse their sprouts and have observation / recording time.

Hand Washing -

Suggested grade levels: **Kindergarten through 2nd grades**

One, 30 - 45 minute session

Think those hands are clean? It's what you can't see that can spread infection! Students will learn the benefits of hand washing, when hands should be washed, and the best way to get hands clean.

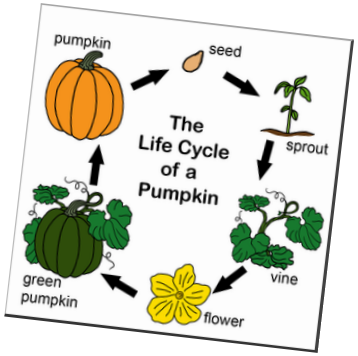
During this visit youth will have an opportunity to actually see how well they have washed their hands using Glo-germ which fluoresces brightly under an ultraviolet light.

The Pumpkin Life Cycle -

Suggested grade level: **1st and 2nd grades**

Three, 45 minute sessions (October Only)

Students will learn the concept of a life cycle, and understand its importance to agriculture, by recreating the various stages of growth and development of a pumpkin through hands on activities.



Positively Popcorn -

Suggested grade level: **3rd grade through 4th grades**

Three, 45 minute sessions (Fall Semester)

Did you know that Nebraska is the number one producer of popcorn? In this lesson students will use science to learn the importance of agriculture in Nebraska and how popcorn goes from a seed to a snack!

Embryology -

Suggested grade levels: **2nd through 4th grades**

Three, 45 minute sessions (Spring Semester)

This spring project gives youth a chance to witness the miracle of life in the classroom. It involves the actual hatching of approximately one dozen eggs and requires 21—28 days to complete. Extension staff will get you set up and ready to go, then classrooms must tend to the eggs on a daily basis and monitor the incubators regularly to ensure a hatch.

Candling the eggs is an exciting part of this project done by Extension Staff. Students will get to see how the chicks develop in the eggs during the incubation period.

Ozobot Robotics -

Suggested grade levels: **2nd and 3rd grades**

Three, 45 minute sessions

The pocket-sized Ozobot Robot can follow a line and be programmed with just markers and paper! Students will explore the engineering design model by brainstorming with a small group an unique obstacle course, building their program, testing their obstacle course, and sharing their successes and failures.