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2016-2017



4-H School Enrichment Programs

*Supplemental youth activities to
enrich classroom experiences*

Offered by:
Nebraska Extension in Madison County

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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August 2016

Elementary School Principals / Teachers

The Nebraska Extension in Madison County, with federal, state, and local governments, provides educational programming to Nebraska citizens. Madison County has a variety of school enrichment programs meeting state standards which can supplement classroom learning. Please review the enclosed program for more descriptions of programs, activities, and fees.

School enrichment programs will be evaluated yearly to ensure teachers have current information. Some programs may be dropped to make room for new programs, but if materials from previous programs are still available, teachers may check them out.

School enrichment programs are provided with minimal cost to cover material expenses. If a teacher needs a particular program and cost is a factor, please call the office to negotiate an equitable cost.

15th Annual Life on the Farm Ag Literacy Festival is a hands-on learning experience for second and third grade students. This will be a half-day session held at the Madison County Fairgrounds in Madison, Nebraska, on Tuesday, March 21st, 2017.

10th Annual Geographic Information Systems Day is an educational experience for fifth and sixth grade students. These days are focused on GIS and how its technology is used in geography today. It will be a half-day session held at the Lifelong Learning Center in Norfolk on your choice of Tuesday, November 29, Wednesday, November 30, or Thursday, December 1st, 2016.

3rd Annual Youth Field Crops Day is a hands-on learning experience for fourth grade students. This will be a half-day session held at the Chuck Pohlman Agriculture Complex on Northeast Community College Campus on Tuesday, October 4th, 2016.

Popular hands-on programs include the **Embryology** and the **Caterpillar to Butterfly** program. These include a set-up visit/discussion and a conclusion/discussion. Due to limited staff, several visits to the same classroom reduce our extension opportunity to serve every teacher.

Please call the Madison County Extension Office with any questions, to preview the material, or to make suggestions for new school enrichment programs.

Sincerely,

Sarah Polacek
4-H Extension Assistant

The Madison 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.

Hope to hear from you soon!

For more information, contact:

Nebraska Extension in Madison County
601 E. Benjamin Ave. Ste. 105
Norfolk, NE 68701

Sarah Polacek, 4-H Assistant
Phone: 1-402-370-4040 or 1-800-217-4310
Fax: 402-370-4010
E-mail: spolacek2@unl.edu



**Make Nebraska Extension & 4-H your first college experience.
For more information about becoming a student of UNL or
joining a 4-H club, visit our website at www.madison.unl.edu.**



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4-H School Enrichment

University of Nebraska-Lincoln Extension - Madison County
<http://madison.unl.edu>
Check our web page

spolacek2@unl.edu
E-mail for more information



15TH AG LITERACY FESTIVAL (LIFE ON THE FARM)

Held at the Madison County Fairgrounds in Madison, Nebraska on
Tuesday, March 22, 2016

This half day field trip will be offered to 2nd and 3rd grade students and is available on a first come, first serve basis. **Must pre-register by March 8th.**

The Ag Literacy program will provide an educational look at the different species of animals and crops that are raised on a farm. Students will be able to touch animals and learn about methods of caring for them. They will also learn about the by-products of animals and crops.



Cost: \$1.00 per student

Nebraska School Standard: Social Studies: 4.5

Embryology

Students will be responsible for caring for the eggs during the twenty-one day incubation period and the baby chicks after they have hatched.

Resources for this project are:

- I. Supportive information
- II. Incubator
- III. Staff can make four visits
- IV. One dozen fertile eggs
- V. Projector provided, if available, for candling first and second week

Note: This is a time-consuming project. You must be willing to turn the eggs three times a day, keep water in the incubator, monitor the temperature, candle, and clean the incubator thoroughly after the hatch.

Fee is \$25.00 per classroom. (Includes candling)

- **SET DATES (choose preferred month-dates will be set as date nears)**
 - February 2017
 - March 2017
 - April 2017





You're Invited to...

Youth Crops Field Day 2016

October 4th, 2016

This is designed to be a half day field day for Fourth Grade Youth.
A morning and afternoon session will be offered for classrooms.
Cost will be 50¢/student

Youth will learn about and experience components of
Nebraska Crop Production!

Must Pre-register to attend by: September 23rd, 2016
by calling the Nebraska Extension Office in
Madison County at 402-370-4040.



Our sessions will also meet specific Nebraska State Standards:

- ✦ SC5.3.1.b Identify how parts of plants and animals function to meet basic needs (e.g., leg of an insect helps an insect move, root of a plant helps the plant obtain water)
- ✦ SC5.3.1 Students will investigate and compare the characteristics of living things.
- ✦ SC5.3.2.a Identify inherited characteristics of plants and animals
- ✦ SS 4.3.2.a Identify criteria used to define regions within the state of Nebraska (e.g., soil, climate, precipitation, population, vegetation, land and agricultural usage)
- ✦ LA 4.3.2.a Demonstrate listening skills needed for multiple situations and modalities (e.g., electronic, one-to-one, small/large group, presentation)

*This day is presented in
Partnership with:*

Northeast
community college

PRODUCERS
Hybrids

Microbes: The Good, The Bad, and The Ugly..... Germs make me sick!

This project is designed to teach students about bacteria and the importance of good personal hygiene.

Microbes: Younger grades

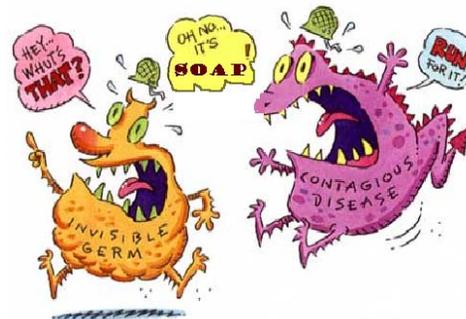
- ↪ Glo-germ activity and directions for washing hands properly

Check-out cost: \$5.00

Microbes: Older grades

- ↪ Microbes in Food: The Good, the Bad, and the Ugly Teacher's Guide
- ↪ Glo-Germ Kit
- ↪ Petri dishes filled with nutrient agar

Check-out cost: \$6.00



Nebraska State Standards:

Science: 1.2.1 & 1.7.1

Health: 1.1 & 1.6

Food Drying with Dehydrators!

This project could be used with Nebraska History or a nutrition unit.
Students can dry fruit or vegetables.

Resource materials include:

- Food dehydrator
- Supporting information

Fee for this project: \$8.00 per class



State Standard: 4.1.3

Wheat Science- Bread in a Bag

The plant science project will focus on the production and use of crops in agriculture.

Resource materials include:

- A hands-on session making wheat bread in the classroom.

Fee for this project - \$3.50 per group

Students work in groups of two or four. Each group makes two loaves of bread.



Nebraska State Standard:

Science: 4.1.5, Math: 4.3.1, Social Studies: 4.1.9

Bully Dance



Bully Dance is a DVD program that deals with conflict resolution by showing a bullying situation; no one stops the dance until serious harm is done. It compels viewers to take stock of their actions and find ways to end peer abuse. The purpose of this program is to provide a starting point to address bullying in your class, the playground, and the school community. There are numerous lessons provided.

Check out cost: \$5.00/week

ROBOTICS

Hands-on Lego's are fun for most kids as they learn how to design and build their robot using Lego MindStorm Kit. The Robolabs software enables students to learn to program their computer. The program teaches problem solving, critical thinking, decision making, teamwork, command actions, and use of the computer. Program is aimed for students in grades 4-8.

4 Lego kits and computers are rented out for \$50 a month.

State Standards: 4.1.4, 4.3.1, 4.6.1, 8.1.1, 8.1.2, 8.1.4, 8.2.1, 8.6.1

Caterpillar to Butterfly



This program is designed to be a three-week lesson allowing your classroom to learn about butterflies. Students will have the opportunity to study and observe the life cycle from a caterpillar to the amazing butterfly. During this process,

youth will get to feed the caterpillars, observe the change from caterpillar to chrysalis, view the hatching process, and, finally, release the Painted Lady butterflies into nature. This project actively engages youth in science and will provide a rich, hands-on learning experience.



Cost: \$15.00 for visit and all the supplies.

- **SET DATES: TBD – Will be in Spring Months of March/April.**

Nebraska State Standards: Science: 1.4.1 & 1.4.2

WHAT IS AN INSECT?



Students will learn about the abundance of insects, parts of an insect, the life cycle of a butterfly, and view displays of insects as they explore the field of Entomology. The Entomology program requires one 30-45 minute session.

No Cost. (Scalable from K-12)

Nebraska State Standard: Science: 4.4.1, 4.4.2

Health Rocks

Hands-on 40-minute presentation about the harmful effects of smoking including dangers of second hand smoke. Presentations includes displays. (Smokers gross mouth and face, tar jar, phlegm jar and others) Suggested grade level: 1-3.

Cost: \$5.00.

Nebraska State Standards: SI1.2.1, SI 4.2.1, SPSP4.7.1, SPSP 4.7.2, SPSP 4.7.3, SPSP 4.7.4



MONEY CENTS

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 saving’s dream, and playing a “how much does it cost” game. Suggested grade level: 2-3

Check Out Cost: \$5.00.

State Standard: Math: 4.1.5, 4.1.1 History: 4.1.9

Think Your Drink!

A 30-minute presentation or kit for check out are available for teachers to use in the classroom. Program includes harmful effects of various types of drinks which contribute to weight gain – if calorie intake exceeds those burned by 500 each day (about 2 soft drinks and a candy bar), you gain about 5 pounds a month. Also, the kit includes a large coke can display and a display of a day’s worth of fat.



Cost: \$5.00 (kit check out or presentation)

Nebraska State Standards SPSP 4.7.1, SPSP 4.7.2

SPLAT!

Helmet Safety

When talking about bicycle or skate board safety, this hands-on activity will demonstrate how a helmet protects the head, in this case, an egg.

Check out Cost - \$5.00

Nebraska Standards: ST 4.6.1, ST 4.6.2



Anti-Drugs and Alcohol

“The Boy who was Swallowed by the Drug Monster” is an informative DVD program about poor choices a young boy makes that leads to his addiction. This is a 40 minute session.

Cost: \$5.00

Nebraska State Standards:



10th Annual Geographic Information Systems Day

COST: FREE

**Tuesday, November 29, Wednesday, November 30, and
Thursday, December 1, 2016**

This is designed to be a half day Field Trip at the
Lifelong Learning Center on
Northeast Community College Campus in Norfolk, Nebraska.

Must Pre-register by Tuesday, November 1st.

SCHEDULE: (Details on next page)

Registration and opening session with rotations between
various sessions:

- Hurricane Maps
- Careers
- GPS
- Hometown Adventure
- Geography Jeopardy



Please select time:

◇ November 29, Morning Session: 9:00-11:30pm
Registration 8:45am

◇ November 30, Morning Session 9:00am-11:30am
Registration 8:45am

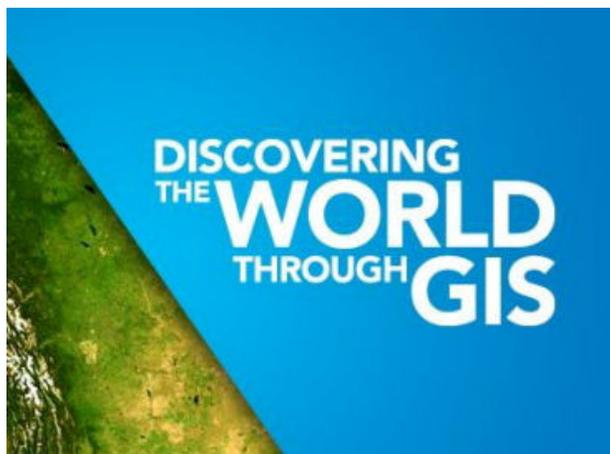
◇ December 1, Morning Session 9:00am-11:30am
Registration 8:45am

SITE: Lifelong Learning Center, Norfolk

TARGET AGE: 5th and 6th Graders

WHAT: Educational presentation on Geographic Information Systems and how they are used in Geography today.

Must pre-register by Tuesday, November 1st.



Secrets of Service

February 23rd and 24th, 2017

(online registrations due in early 2017)

8:30am – 2:15pm

This is an all-day event held at the Lifelong Learning Center on Northeast Community College Campus at 601 E. Benjamin Ave. Norfolk.

This interactive character education program designed for 5th and 6th graders focuses on entrepreneurship. It is 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 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 State Standards:

Social Studies: 4.8, 4.9, & 8.3.5

Reading/Writing: 4.3.1

Math: 4.1.5

Family & Consumer Science: FCS 06-12.11.1

For more information about this event, please contact the Madison County Extension Office at (402) 370-4040 or visit the website at <http://extension.unl.edu/statewide/nerec/4h/>



Cost: \$5.00 per participant & bring their own lunch

2016 - 2017 Registration Form

Office Use Only
Date Billed: _____
Payment Received: _____
Ck #: _____

Teacher's Name: _____ Grade: _____

School: _____

School phone: _____

Best time to call: _____ E-mail: _____

Statistics: (needed for state reports)

Total Number of Students: _____

Male: _____ # Female: _____

Caucasian _____ African-American: _____

American Indian _____ Hispanic: _____ Asian: _____

Project Enrollment:

List the project you want to enroll in and month you prefer. (Email registration to spolacek2@unl.edu)

1. _____ Month _____
2. _____ Month _____
3. _____ Month _____
4. _____ Month _____

GIS Day-No Cost

Please circle your choice--

DATE: NOV. 29 NOV. 30 DEC. 1

Morning Session Only.

I am attending with _____ (#) students

Ag Literacy Festival - 1.00/student

Please circle your choice-

DATE: MARCH 21st, 2017

TIME: 9am-11:30am OR 12pm-2:30pm

I am attending with _____ (#) students

Youth Crops Field Day

Please circle your choice-

DATE: OCT. 4, 2016

TIME: 9am-11:30am

OR 12:00pm-2:30pm

I am attending with _____ (#) students

Total cost \$ _____

Check Enclosed: # _____

Bill me Please! _____