



NEBRASKA EXTENSION  
WASHINGTON COUNTY  
SCHOOL ENRICHMENT PROPOSALS

2023-2024  
Programming Year

JUNIOR HIGH SCHOOL

Program	Price/Classroom	Length	Facilitator
Ag in the Classroom Kit	\$15.00	asynchronous	School Teacher
Husker Beef Lab	TBD	Varied	Extension
Bridges & Structures	\$15.00	3 45min sessions	Extension
CSI: DNA	\$10.00	1 90min session	Extension
Embryology	\$5.00	0-2 60min sessions	Extension
Kitchen Science	\$15.00	1 90min session	Extension
Microbiology	\$15.00	2 45min sessions	Extension
*Mobile Science Lab	TBD	varied	Extension
4-H STEM Challenge	FREE	varied	Either
*STEM Days	TBD	Field Day	Extension
Engaged U: Mindful Movement	\$5.00	4 45min sessions	Extension
Smart Cents	\$5.00	4-6 45min sessions	Extension

PROGRAMS:

**Ag in the Classroom Kit**

Extension staff will provide you and your students with portable kits that help students to better understand Nebraska's largest industry – agriculture. Kits include activities in the areas of crop production and livestock production. The kit allows teachers can teach at their own pace.

**Husker Beef Lab**

The Husker Beef Lab provides hands-on experiences for middle and high school students. The mobile lab teaches students science principles through a ruminant animal (4 stomachs) by reaching inside the beef stomach. Students will learn about animal well-being, the nutritional aspects of beef, and more about pasture to plate in Nebraska.

**Bridges and Structures**

Students work as a team to explore the world of engineering as they build structures to meet specific needs out of household items.

**Crime Scene Investigation: DNA**

Students will construct DNA and discover how DNA sequencing aids investigators in solving crimes. Students will get to extract their own DNA and see it with their own two eyes.

**Embryology**

This lesson teaches youth how life develops by observing the process of hatching baby chicks over a three-week period. During the lesson, students learn about the makeup of eggs, the difference between store eggs and fertilized eggs and the process of hatching chicks. Students assume responsibility of the eggs as if they were the mother hen and rotate the eggs in the incubator daily.

**Kitchen Science**



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Students get comfortable in the kitchen while exploring the world of chemistry using simple ingredients, food, utensils and containers. Advanced level (4-8 grades): Participants will learn to predict outcomes and experiment with ordinary kitchen items.

**Microbiology**

Gain a crash course in microbiology and learn about different types of salmonella's and E coli's that are present in the environment and on food. Students will also learn about good bacteria and yeasts that make up our food.

**Mobile Science Lab\***

The Mobile Science Lab brings science to youth through interactive activities that show youth that science is all around them.

**4-H STEM Challenge**

Each year 4-H STEM Challenge helps students to learn fundamental STEM skills while they wrestle with the same questions as today's top scientists and engineers. Educators will provide a kit that walks through activities related to physics, light, engineering, coding and more.

**STEM Days\***

Students learn about engineering processes through a variety of hands-on activities.

**Engaged U: Mindful Movement**

Students will learn strategies that will support them to be more self-aware and enhance their social-emotional learning through movement, mindfulness practices and team building activities.

**Smart Cents**

Smart Cents helps youth develop financial skills and habits that will set them up for long term success. Students become real-world consumers as they gain insight on how they perceive money while making personal financial plans and decisions.