

HARVEST OF THE MONTH - JANUARY / BEEF

Grades 3-5



Kansas leads the world in the success of each student.

SEPTEMBER 21, 2024

MISSION

To prepare Kansas students for lifelong success through rigorous, quality academic instruction, career training and character development according to each student's gifts and talents.

VISION

Kansas leads the world in the success of each student.

MOTTO

Kansans Can

SUCCESS DEFINED

A successful Kansas high school graduate has the

- Academic preparation,
- Cognitive preparation,
- Technical skills,
- Employability skills and
- Civic engagement

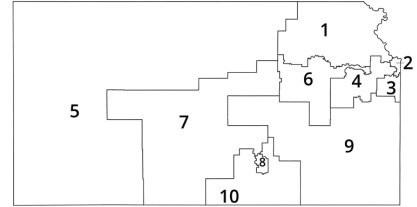
to be successful in postsecondary education, in the attainment of an industry recognized certification or in the workforce, without the need for remediation.

OUTCOMES

- Social-emotional growth
- Kindergarten readiness
- Individual Plan of Study
- Civic engagement
- Academically prepared for postsecondary
- High school graduation
- Postsecondary success



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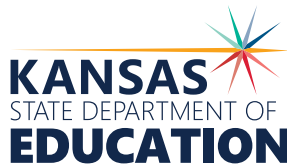


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Jan. 25, 2024

HARVEST OF THE MONTH

January / Beef

INTRODUCTION

Over the next few weeks, we will be learning about a kind of food that we harvest in Kansas. I'm going to give you some clues to see if you can guess what this food is.

- This is another type of food we get from cattle.
- Its an excellent source of protein and give us 10 essential nutrients including B-vitamins, zinc, and iron that give us energy, helps us to have strong muscles and help keep us healthy.
- This type of food can include things like hamburgers, steak, and roasts.

Can you guess what food I'm talking about? We will be learning about Beef!



VOCABULARY

Cow-Calf Ranch: a method of rearing beef cattle in which a permanent herd of cows is kept by a farmer or rancher to produce calves for later sale.

Auction: a public sale in which goods or property are sold to the highest bidder.

Stocker Ranch: A stocker ranch is a type of beef cattle operation that raises weaned calves and yearlings to a desired weight through grazing and other management practices

Feed Yard: a large, fenced area of land used to feed and keep animals before they are slaughtered

Processing: the process of turning a live cow into beef for sale

GENERAL RESOURCES

ENGAGE

Ask students to think about their favorite meal made from beef. Provide two minutes for students to think on their own by either writing about their favorite meal or quickly drawing their favorite meal. Allow students to share with their table partner about their favorite meal made from beef. Then, elicit volunteers to share one each. If students only come up with a few, remind them that beef can be in a lot of their favorite meals (chili, tacos, spaghetti sauce)!

Share with students that there are more than a million cattle ranchers in the United States that work hard everyday to produce delicious, safe, and nutritious beef for them and their families.

State: "Today we'll explore more about how ranchers produce beef for our tables!"

EXPLORE

From the lesson materials on pages 6-7 create a set of pictures and labels for groups of two to three students by cutting out the labels and pictures.

Ask students to match up the pictures with the labels. Once pairs have matched up the pictures, ask students to stand up behind their desks. Ask students to do a gallery walk around each group, paying close attention to how other groups similarly grouped the pictures and labels.

As a class, create a class consensus match up noting the patterns of each step.

Show the Beef video¹ with students.

1 <https://www.youtube.com/watch?v=m-03aT4SavE>

EXPLAIN

Use the following coloring book for students to read with a partner. Students are paired together. One student reads one page aloud with their partner, the second partner reads the next page aloud to their partner. The pair continues until the entire book is read.

When students are finished reading the book, students can color the pages².

ELABORATE

Use the myamericanfarm.org website for students to play the game titled “Steaks are High³” where students will learn more about how cows are farmed to then be processed into beef.

2 <https://beef.widen.net/s/tpcvcffvhl/coloring-book>

3 <http://www.myamericanfarm.org/games/the-steaks-are-high>

1

COW-CALF RANCH

2

AUCTION

3

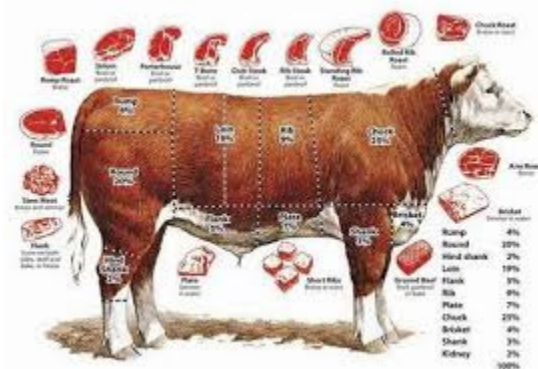
STOCKER RANCH

4

FEED YARD

5

PROCESSING



KANSAS SCIENCE STANDARDS ADDRESSED

K-LS1 From Molecules to Organisms: Structures and Processes

Students who demonstrate understanding can:

3-LS1-1

Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.

Clarification Statement:

Changes organisms go through during their life form a pattern.] [Assessment Boundary: Assessment of plant life cycles is limited to those of flowering plants. Assessment does not include details of human reproduction.

The performance expectations above were developed using the following elements from the NRC document A Framework for K-12 Science Education.

Science and Engineering Practices

Developing and Using Models

Modeling in 3–5 builds on K–2 experiences and progresses to building and revising simple models and using models to represent events and design solutions

- Develop models to describe phenomena. (3-LS1-1)

Connections to Nature of Science

Scientific Knowledge is Based on Empirical Evidence

- Science findings are based on recognizing patterns. (3-LS1-1)

Disciplinary Core Ideas

LS1.B: Growth and Development of Organisms

- Reproduction is essential to the continued existence of every kind of organism. Plants and animals have unique and diverse life cycles. (3-LS1-1)

Crosscutting Concepts

Patterns

- Patterns of change can be used to make predictions. (3-LS1-1)

Connections to other DCIs in third grade: N/A

Articulation of DCIs across grade-levels: MS.LS1.B (3-LS1-1)

Common Core State Standards Connections: ELA/Literacy

RI.3.7

Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur). (3-LS1-1)

SL.3.5

Create engaging audio recordings of stories or poems that demonstrate fluid reading at an understandable pace; add visual displays when appropriate to emphasize or enhance certain facts or details. (3-LS1-1)

Mathematics

MP.4

Model with mathematics. (3-LS1-1)

3.NBT

Number and Operations in Base Ten (3-LS1-1)

3.NF

Number and Operations—Fractions (3-LS1-1)

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