

# Exploring Kansas Animals

**LEVEL:** Kindergarten, First and Second Grade Classrooms, with K-8 applications

**GOAL:** To connect students with an awareness of agriculture in their everyday lives through integrated learning opportunities tied to outcomes related to teaching standards.

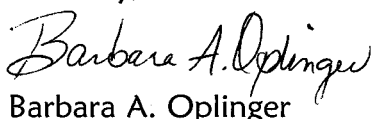
Dear Educators:

It is with great pleasure that the Kansas Foundation for Agriculture in the Classroom (KFAC) is able to offer you this new resource. This Educator's Guide and the *Kansas Kids Connection* publications have been initiated by educators. The funding was made available from agricultural producers, a one-time grant on behalf of the Kansas Attorney General's Office through the Vitamin Settlement Committee, a Shared Solutions <sup>SM</sup> agricultural initiative of the Altria family of companies, the Midwest Dairy Council, the Kansas/Asia Community Connection and Kansas Foundation for Agriculture in the Classroom.

It is important that the students in Kansas connect to the number one business in the state, as one in five of them will find their careers in the agricultural field. Just think of it! Agriculture! Why, if producers didn't grow enough food for themselves and many others, there wouldn't be all of the other careers and cultures to explore. Agriculture encompasses much more than just production. Take a look at this guide and you will see.

Have fun while you're Exploring Kansas Animals and discovering about the livestock business in Kansas. We say that Earth Day is every day for Kansas farmers and ranchers. KFAC recognizes that the general welfare of people and their standard of living hinge on the strength of agriculture. You'll see too that agriculture leaves no child behind. Hands on learning will allow all students to excel.

Sincerely,



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## 1

## The Kansas Prairie

### OUTCOMES

The students will

- Separate land, air and underground animals.
- Observe compaction and water absorption.
- Observe water movement in plants.
- Measure and graph temperatures.

### ACTIVITIES

- 1-1) Prairie Profile: The students will cut out and paste animals into their ecosystem. .... 17
- 1-2) Prairie Soils: The class will make a hypothesis about compaction, perform an experiment using cereal and discuss the results. .... 21
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### EVALUATION: STUDENT WORKSHEET

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## How Kansas Animals Grow

### OUTCOMES

The students will

- Recognize weights of young and mature animals.
- Discover that bees use scent to locate and protect their beehives.
- Estimate the food needs of animals.
- Recognize that food can be scarce.
- Understand animal management with respect to reproduction and marketing.
- Determine the similarities and differences between categories of human diets and animal feed rations, package and label a product.
- Discover that the weather changes daily.
- Observe weather conditions.

### ACTIVITIES

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### EVALUATION: STUDENT WORKSHEET

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## Moving Kansas Animals to Markets

### OUTCOMES

The students will

- Recognize past cattle transportation methods.
- Compare past transportation methods to present transportation methods.
- Create a brand design.
- Recognize the economic benefits of animal identification.
- Recognize the role of the rodeo clown in protection of cowboys and animals.
- Recognize the role of sale rings in the livestock industry.
- Discover economic concepts.
- Process butter from milk.
- Discover the steps involved in milk production.

### ACTIVITIES

- 3-1) Transportation: The students will imitate cowboys driving cattle herds. .... 67
- 3-2) Animal Identification: The students will form a brand, dip it in paint and apply the brand to a bull cut-out. .... 71
- 3-3) Rodeo Clown: The students will color, cut out and paste rodeo clown clothing on a rodeo clown. .... 75
- 3-4) Sale Ring: The class will simulate the sale of animals in a sale ring. .... 79
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### WORKSHEETS

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### EVALUATION: STUDENT WORKSHEET

- What I Know About Moving Kansas Animals ..... 90

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**Food Uses of Kansas Animals**

**OUTCOMES**

The students will

- Apply steps for effective handwashing.
- Demonstrate responsibility for personal hygiene.
- Recognize foods that come from animals.
- Recognize the location of serving size on food labels.
- Evaluate the number of servings consumed.
- Recognize the importance of breakfast.
- Demonstrate responsibility for health.
- Discover Asian food preparation and serving customs.
- Discover that pizza includes ingredients from all five food groups.

**ACTIVITIES**

4-1) Food Safety: The students will simulate the spread of germs, wash their hands and then examine for evidence. .... 99

4-2) Foods from Animals: The students will match food items to the animals from which they are produced. .... 103

4-3) Serving Sizes: The students will compare usual cereal consumption to proper serving sizes. .... 107

4-4) Breakfast: The class will prepare and package a muffin mix for baking at home. .... 111

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## Animal Coproducts

### OUTCOMES

The students will

- Recognize that Native Americans used coproducts from bison.
- Compare the use of pouches with pockets.
- Discover that cleansers are made from animal products.
- Recognize weaving techniques in fabric.
- Identify Kansas livestock coproducts.

### ACTIVITIES

- 5-1) Making a Pouch: The students will assemble a pouch similar to those of Native Americans. .... 125
- 5-2) Soap Making: The student will prepare and use a cleanser. .... 129
- 5-3) Using Animal Coproducts: The class will weave crepe paper. .... 131

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### EVALUATION: STUDENT WORKSHEET

- What I Know About Animal Coproducts ..... 136

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**Careers Within Agriculture**

**OUTCOMES**

The students will

- Recognize the importance of foodservice personnel to nutrition.
- Demonstrate responsibility for health.
- Discover agricultural careers in their school.
- Discover agricultural careers.

**ACTIVITIES**

- 6-1) School Lunch Connection: The students will interview a school foodservice professional and write a thank you note. .... 143
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