Agriculture Education on the Move
Student Objectives

AEOTM

Agriculture Education on the Move is a 10 lesson hands-on education program identifying key classroom objectives and meeting standards primarily in the areas of science, math, reading, and writing. Students gain an understanding of today's agriculture and farm families through diverse learning experiences. Participating classrooms have the opportunity to learn about crops, livestock, soil and water conservation, nutrition, and agricultural careers.

Agriculture™
E D U C A T I O N
on the move.

For more info visit
www.agmoves.com

SOYBEAN LESSON
STEM Activity: Soybean germination necklace.
- Describe and label parts of a soybean plant.
- Explain the life cycle of a soybean plant from planting to harvest.
- Explore soybeans' relationship to livestock.
- Identify products comprised of soybean materials.

Standards:
R.1.B.f, R.3.A.d, SL.2.A.a, SL.3.A.b, LS.1.A, W.2.A.c, L.1.A, L.1.B

CORN LESSON
STEM Activity: Make corn plastic.
- Describe and label parts of a corn plant.
- Explain the life cycle of a corn plant from planting to harvest.
- Compare and contrast sweet corn and field corn.
- Provide examples of products comprised of corn materials.

Standards:
R.1.B.f, R.3.A.d, SL.2.A.a, SL.3.A.b, LS.1.A, PS1.A.2, W.2.A.c, L.1.B.a

MO CROPS LESSON
STEM Activity: Missouri dough model
- Identify regions of Missouri and where the state's top field crops are grown.
- Identify crops grown in Missouri other than soybeans and corn.
- Explain how farmers determine what crops to grow.

Standards:
R.1.B.f, R.3.A.d, SL.2.A.a, SL.3.A.b, W.2.A.c, SS.5.A, SS.5.B, SS.5.C, SS.5.F, SS.5.F, SS.5.G, L.1.A, L.1.B

SOIL LESSON
STEM Activity: Soil Horizon Bookmark
- Describe the importance of soil to everyday life.
- Explain soil textures and their impact.
- Discuss how water moves through soil horizons.
- Examine how farmers conserve soil and water and recognize why its important.

Standards:
R.1.B.f, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, ESS3.B, W.2.A.c, L.1.A, L.1.B

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BEEF LESSON

STEM Activity: Beef By-Product Bingo
- *Define beef cattle and explain how they are raised.*
- *Describe what beef cattle eat and label their digestive system.*
- *Understand how beef cattle interact with the environment.*
- *Identify beef products and beef by-products.*

Standards:
R.1.B.f, L.1.B.a, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, GM.A.5, RA.A.3, W.2.A.c, L.1.A, L.1.B, LS.1.A, LS2.B.5

DAIRY LESSON

STEM Activity: Make homemade butter.
- *Compare and contrast beef and dairy cattle.*
- *Explain how dairy cattle are raised and cared for by farmers.*
- *Describe how dairy products get from farm to store.*
- *Provide examples dairy products.*

Standards:
R.1.B.f, L.1.B.a, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, PS.1.A, W.2.A.c, L.1.A, L.1.B

PORK LESSON

STEM Activity: Feed ration trail mix
- *Explain how pigs go from birth to market.*
- *Identify what pigs eat and where their food comes from.*
- *Define pork products and by-products and how we use them in everyday life.*

Standards:
R.1.B.f, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, L.1.B.a, GM.B.4, GM.A.5, RA.B.1, NBT.A.5, W.2.A.c, L.1.A, L.1.B

POULTRY LESSON

STEM Activity: Egg Candling and Egg Identification
- *Describe what chickens eat to stay healthy.*
- *Compare and contrast broiler and layer chickens.*
- *Recognize two types of poultry raised on farms.*
- *Identify poultry products and egg production.*

Standards:
R.1.B.f, L.1.B.a, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, W.2.A.c, L.1.A, L.1.B, LS1.B.3

NUTRITION LESSON

STEM Activity: Grocery ad meal activity
- *Identify the five food groups within MyPlate.*
- *Describe fruits and vegetables and their production methods.*
- *Explain the difference between cool and warm season vegetables.*

Standards:
R.1.B.f, L.1.B.a, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, W.2.A.c, L.1.A, L.1.B

AG CAREERS LESSON

STEM Activity: Supply chain identification activity
- *Explain the supply chain for food products raised by Missouri farmers.*
- *Identify career opportunities within the agriculture industry.*

Standards:
R.1.B.f, L.1.B.a, R.3.A.d, SL.2.A.a, SL.3.A.b, SL.1.A.c, W.2.A.c, ETS1.A, SS.4.A, SS.5.E, L.1.A, L.1.B

Missouri
FARMERS Care
FOUNDATION