

Farm Crops and Animals Logic Puzzle

Grade Level: 4-8

Lesson Overview

A logic puzzle is a problem that can be solved using deductive reasoning. A deduction is a logical conclusion drawn from two or more true statements. One common type of logic puzzle involves a tool known as an elimination grid. In this activity, students will learn about farm crops and animals then use an elimination grid to solve a puzzle.

Student Objectives

1. Practice logical thinking skills utilizing charts to draw conclusions based on information provided while learning about soil.

Materials

- ✓ Farm Crops and Animals Logic Puzzle

Procedure

Allow students time to complete the Farm Crops and Animals Logic Puzzle and then compare answers.

If you have not given your students a logic puzzle previously, you may want to help them understand the steps in finding an answer. Please keep in mind that not all the information is given. Students should use the information available and the process of elimination to find the answers.

Standards

Illinois Mathematics Standard

7.SP.8b Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams.

Illinois English Language Arts Standard

L5 Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.

The **M**ultidisciplinary **A**gricultural **I**ntegrated **C**urriculum (mAGic) was created in 2004 under the leadership of the Illinois State Board of Education (ISBE) and the Facilitating Coordination in Agricultural Education Project (FCAE). Funding was made available through the FCAE grant budget from the agricultural education line item of the ISBE budget. This revision, as printed, was developed in April 2021.



These mAGic lessons are designed to bring agriculture to life in your classroom. They address the Illinois Learning Standards in math, science, English language arts and social studies.

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Name _____

Farm Crops and Animals Logic Puzzle

The chart helps you identify what you've learned from each clue. The square where the vertical and horizontal meet is where you mark your possible answers. Read each clue and record the information on the chart. When you find a true match put a yes in the appropriate box. When you prove a combination false, put no in the box. Continue until you find all the answers.

Four Illinois farmers each raised one type of crop and one type of animal on their farm. Use the chart and clues to find out what each farmer had on his land. Then fill in the blanks at the bottom of the page.

1. Farmer Lane raised insects to pollinate the big yellow flowers on his plants.
2. Farmer Anderson sheared his animals for wool each spring.
3. Farmer Smith didn't like animals that had a reputation of wallowing in mud.
4. Farmer Anderson's crop was made into flour for making bread.
5. Farmer Jones' crop is exported to many different places and is called the "miracle crop."

	Anderson	Jones	Lane	Smith
corn				
pumpkin				
soybeans				
wheat				
bees				
cows				
sheep				
pigs				

Farmer Anderson had _____ and _____.

Farmer Jones had _____ and _____.

Farmer Lane had _____ and _____.

Farmer Smith had _____ and _____.

Farm Crops and Animals Logic Puzzle ANSWER KEY

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	Anderson	Jones	Lane	Smith
corn				Yes
pumpkin			Yes	
soybeans		Yes		
wheat	Yes			
bees			Yes	
cows				Yes
sheep	Yes			
pigs		Yes		

Farmer Anderson had wheat and sheep.

Farmer Jones had soybeans and pigs.

Farmer Lane had pumpkins and bees.

Farmer Smith had corn and cows.