Asombro Institute
FOR SCIENCE EDUCATION

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Are You This Cow's Herd?
3rd Grade Classroom Program

Program Summary
After an introduction to traits and several types of cows, students visit six hands-on stations to gather data to compare a lost cow's traits to the traits of other cattle types. They analyze and interpret these data to help a rancher reunite the lost cow with her herd.

Phenomenon
Can traits of different types of cows be used to reunite a lost cow with her herd?

Next Generation Science Standards
3-LS3-1. Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.

Science & Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Analyzing and Interpreting Data Using Mathematics and Computational Thinking Engaging in Argument from Evidence	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	Patterns

Common Core State Standards
Mathematics
CCSS.MATH.CONTENT.3.MD.B.4 - Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.

English Language Arts
CCSS.ELA-LITERACY.RI.3.1 - Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
CCSS.ELA-LITERACY.RI.3.2 - Determine the main idea of a text; recount the key details and explain how they support the main idea.
CCSS.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).
CCSS.ELA-LITERACY.RL.3.1 - Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.

Date: _____ *Asombro staff:* _____