



**Cows and Calves
Classroom Program for 1st Grade**

Program Summary

Students will learn about Raramuri criollo cattle, a heritage breed that scientists are researching as a sustainable ranching solution in the dry southwestern United States. Students will discover how Criollo dams, or mothers, help their offspring, or calves, survive. They will conduct investigations to determine different ways Criollo ensure calves survive by studying their behaviors and how data are being collected in New Mexico using precision tools. They will then analyze data they collect to understand how Criollo are well suited to survive in the Chihuahuan Desert.

Phenomenon: What do Criollo cows do to help their calves survive in the Chihuahuan Desert?

Next Generation Science Standard

1-LS1-2. Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. [Clarification Statement: Examples of patterns of behaviors could include the signals that offspring make (such as crying, cheeping, and other vocalizations) and the responses of the parents (such as feeding, comforting, and protecting the offspring).]

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Obtaining, Evaluating, and Communicating Information Analyzing and Interpreting Data	LS1.B Growth and Development of Organisms	Patterns

Common Core State Standards

English Language Arts

SL1. Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.

RII.1 Ask and answer questions about key details in a text.

Date: _____

Asombro staff: _____