



Don't Fence Me In 5th grade

Description

Students are introduced to a precision ranching tool currently being studied by scientists in the southwestern United States that combines the Global Positioning System (GPS) with novel virtual fencing that has the potential to improve cattle management and protect Earth's natural resources.

Phenomenon

Can virtual fencing help ranchers better manage their cattle and rangeland while at the same time protect Earth's natural resources?

Objectives

Students will:

- conduct two exploratory activities that model cattle ranching and the challenges experienced by ranchers
- conduct an exploratory activity to model how GPS collars and virtual fencing can help ranchers better manage their cattle and protect environmentally sensitive areas
- use persuasive writing in the form of an advertisement, brochure, or commercial to present the pros and cons of virtual fencing

Common Core State Standards

ELA/Literacy

W.5.1 Write opinion pieces on topics or texts, supporting a point of view with reasons and information.

W.5.2.D Use precise language and domain-specific vocabulary to inform about or explain the topic.

W.5.9 Draw evidence from literary or informational texts to support analysis, reflection, and research.

Next Generation Science Standards

5-ESS3-1: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Science & Engineering Practices	Disciplinary Core Ideas	Cross Cutting Concepts
Obtaining, evaluating, and communicating information	ESS3.C Human Impacts on Earth's systems	Systems and system models
Developing and using models	ESS2.E Living things affect the physical characteristics of their regions	
Engaging in an argument from evidence		

Date: _____

Asombro staff: _____