

Lesson Plan for “THERE’S AN APP FOR THAT!”

Goal: Introduce science, technology, engineering, and mathematics (STEM) into an agriculture-based lesson on cattle ranching.

Age Group: Grades 6-8 and up.

Materials: Notetaking materials, laptops and/or smart phones for research activity, white board. Lesson leader will provide other materials such as flyers, maps, tools, etc. as needed.

Activity: Teams of 2-3 students will pick a random technology or subject out of a hat. They will have 10 minutes to research the topic and be ready to report back:

1. What subject did you review?
2. What is it and how does it work?
3. Could you incorporate it into your ranch or farm plan? Why or why not? How would you use it?

Time: 5 minutes Introduction to the lesson
5 minutes Distribution of materials, organization of activity (random topic selection)
10 minutes Activity
30 minutes Student results and review
5 minutes Wrap-up and conclusions
55 minutes Total Time (May be shorter time period depending on reporting)

Technology/Subject/Topic:

CattleMax Cattle Recordkeeping
AgriWebb Cattle Recordkeeping
Drone Cowboys Custom Videography
Ranchbot Remote Water Monitoring
PictureThis Plant Identifier
Vence Virtual Fence
WatchDuty
PastureMap
MyShake
EID and RFID Electronic Identification
DNA Testing in Cattle
Ultrasound Testing in Cattle
Smart Phones/Satellite Communications