



BYTE-SIZED FARMING: WATERING WITH PRECISION

In this lesson, students will learn about common row crops in the Southeastern United States and how precision agriculture is used in large-scale production of these crops. Precision agriculture uses technology to improve crop yields, and make better management decisions. Precision ag can prevent over application of resources, erosion and runoff, etc. Students will construct an irrigation apparatus to mimic real-world irrigation precision ag techniques, such as a center-pivot.



LifeSmarts

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LifeSmarts, the nation's premier consumer program, has never been more relevant. For 30+ years, LifeSmarts has provided real-world education for students who learn about core consumer topics and develop critical thinking skills. Participants focus on five key topic areas: consumer rights and responsibilities, the environment, health and safety, personal finance, and technology. The goal of LifeSmarts is to create consumer savvy young people who will be well equipped for adult life in today's complex, global marketplace.

This lesson was developed in collaboration with LifeSmarts and 4-H. For more information and LifeSmarts resources, checkout: www.lifesmarts.org



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4-H



What is agriculture?







LEADING ROW CROPS



Peanuts



Cotton



Corn



IRRIGATION

the artificial application of water to land, typically for agricultural purposes, to support plant growth.





***What is the difference
between weather and
climate?***



WHAT'S THE DIFFERENCE?

 **Weather**

the short-term conditions of the atmosphere at a specific time and place

Climate 

the long-term average of weather patterns in a region, usually over 30 years or more



ACTIVITY:

WEATHER INVESTIGATION

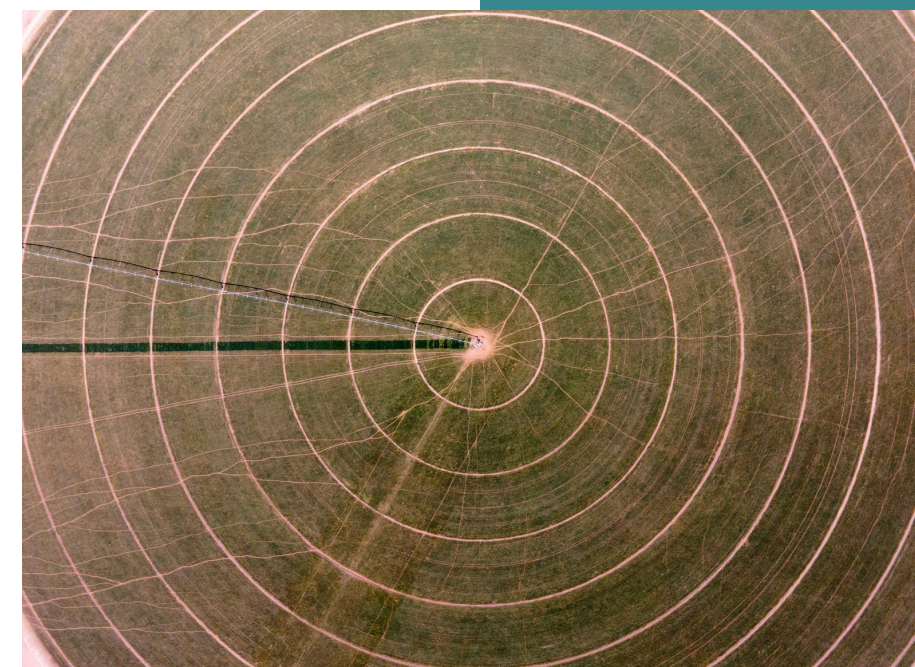




CENTER PIVOT

The center pivot is one of the most widely used irrigation system on US farms.

It is a self-propelled system that rotates around a central pivot point.





ACTIVITY:

**BUILD AN
IRRIGATION
MODEL**





PRECISION AGRICULTURE BENEFITS

- optimized resource allocation
- improved crop quality
- environmental sustainability
- enhanced farm management:



FINAL ACTIVITY:

CHALLENGE QUESTIONS

***LET'S PUT YOUR KNOWLEDGE OF TODAY'S
LESSON TO THE TEST WITH A SET OF
CHALLENGE QUESTIONS!***



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