

## Rangelands, Ice Cream and Genghis Khan

### Summary

Overview of the world's rangelands, what influences grazing animal choices, how to manage those choices, and how an ancient ruler used this knowledge to establish the largest empire in the history of the world. Includes a hands-on activity that involves all the students.

### Grade levels:

Elementary to Middle School

### Subject area:

Earth science, history



## Revolutionary Conservation

### Summary:

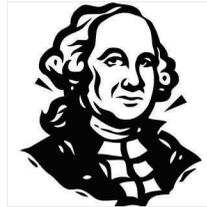
Our Founding Fathers were passionate about independence but did you know that they also shared a passion for agriculture and conservation? Learn how George Washington, John Adams, Thomas Jefferson and James Madison practiced agriculture and their conservation efforts and interests.

### Grade levels:

Elementary to Middle School

### Subject area:

Earth science, history



## White Gold—Snow Survey Forecasting

### Summary

Overviews the importance of snow surveying for everyone in the Front Range of Colorado, from water use for municipalities, irrigating crops used for food, and wildlife benefits. Demonstrates how a snow survey sample is obtained manually or through Snotel automated sites and the math used to calculate how much water is contained in snowpack.

### Grade levels:

Elementary, Middle School,

### Subject area:

Earth science, math, history



# School Presentation Activities

## School Presentation Activities



**BOULDER VALLEY  
AND LONGMONT  
CONSERVATION**



Photo courtesy of the Longmont Times-Call

### Contact

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## Common Water

### Summary:

Illustrates how multiple user of water resources can affect water quality and quantity, as well as examines the complexities of providing water for all water users.

### Grade Levels:

Middle School, adapted for Elementary

### Subject Areas:

Environmental Science, History



## The answer is not blowing in the wind

### Summary:

Exercise demonstrates the loss of soil by wind and water erosion and how different types of soil cover will impact erosion rates. Also introduce the conservation practices used to protect the soil from erosion and the history of the Dust Bowl.

### Grade levels:

Elementary to High School

### Subject Areas:

Environmental Science, History



## Just Passing Through

### Summary:

An interactive activity for students to compare the rates at which water flows down slopes with and without plant cover. Best Management Practices will be covered to identify how to reduce erosion. This exercise also looks at the impact erosion has on stream health.

### Grade levels:

Elementary to Middle School

### Subject Areas:

Earth Science

## Rocky Mountain Survival

### Summary:

This exercise demonstrates how available resources, including wildlife habitat affect the economy and culture of an area. Students will be introduced to natural resources and will be able to describe the difference between non-renewable and renewable resources.

### Grade levels:

Upper Elementary to High School

### Subject Areas:

Social studies, Sciences, Environmental Education, with an option in Economics



## The Incredible Journey

### Summary:

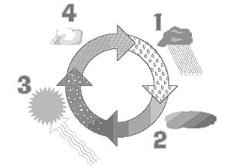
With a roll of the die, students simulate the movement of water within the water cycle and journal the journey. Students will describe the movement of water within the cycle and identify the states of water as it moves through the water cycle.

### Grade levels:

Upper Elementary to Middle School

### Subject area:

Earth science



## Soil: More than just dirt!

### Summary:

Exercise has students examine different samples of soil to determine the different textures and classes of soils. Demonstrate the difference in particle size, infiltration rates, and the organisms that live in soil. This activity is best during the Spring.

### Grade levels:

Elementary to Middle School, can be adapted to High School Level

### Subject area:

Earth science



## Agriculture and Natural Resources Jeopardy

### Summary:

Game test students on their knowledge of agriculture products (I.e. gum is made from corn, some sugar comes from beets, identifying what tractors do what jobs, etc.) and conservation of natural resources (i.e. is it a noxious weed or a pretty flower)

### Grade levels:

Upper Elementary to Middle School

### Subject area:

Earth science, history



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