

# How Pioneers and Their Horses Settled the Land

## History Facts/Reading:

Power Point

Program Theme Report

## Geography Map:

The Oregon Trail

1. The Oregon Trail began in what eastern state? Missouri
2. The Oregon Trail ended in what western state? Oregon
3. What mountain region did the Oregon Trail pass through? Rocky Mountains

## Math:

Without the help of horses, pioneers would have to plow the land by hand.

1. A farmer had to plow his field by hand. The field could hold 240 rows and it took the farmer about 4 hours to plow 1 row. How many hours would he have to work to finish plowing the field?  $240 \text{ rows} \times 4 \text{ hours} = 960 \text{ hours}$
2. Another farmer went and bought a horse because the horse could plow a field much faster. It took the horse only 30 minutes to plow 1 row. How many hours did it take the horse to plow a field that could hold 345 rows?  $345 \text{ rows} / 2 = 172.5 \text{ hours}$
3. A farmer went to the local general store to buy corn seeds, a new wagon wheel, and a new horse. He took with him \$100.00. The corn seeds cost \$11.00, the new wagon wheel cost \$17.00, and the new horse cost \$56.00. How much did everything cost together?  $11 + 17 + 56 = \$84$  How much money did the farmer have left after he paid for everything?  $100 - 84 = \$16$

## Vocabulary/Spelling:

Frontier - A region just beyond or at the edge of a settled area

Settle - To establish residence in; colonize

Dwelling – a place to live in

Elements - The forces that make up the weather, especially severe weather

Agriculture - The science, art, and business of cultivating soil, producing crops, and raising livestock; farming

Fertile - Capable of growing and developing

Wagon Train - A line or train of wagons traveling cross-country

Utensils - An instrument or container used domestically, especially in a kitchen

## **Science:**

Pioneers planted seeds and harvest the crops for food. The seeds had to be planted in the ground which was often hard. The fastest way to dig up the ground was to plow. They had to till the ground to break up the soil for water to reach the seeds so they could grow.

### **Celery Experiment**

Learn what a 'control' is and learn how water moves through plants.

#### **What you need:**

- Celery for each student with as many leaves on it as possible
- Different colors of food coloring
- Plastic cups
- 3x5 index cards

#### **Activity:**

- Place a piece of celery into a cup with clear water and explain to the students that it is the 'control'
- The control piece of celery will not change color in clear water
- Each student is allowed to have a cup of clear water and choose their food coloring color to change their water color (teachers may want to add the food color themselves with younger students)
- Each student places their piece of celery into their cup of colored water
- Place each cup on a 3x5 index card with the students name on it
- Observe the change in color of the celery after 24 hours