

A Long Day

Procedure

1. Record your observations in the chart below.

Number of Dots	
In Light	In Darkness

- 2. Use Models** A globe is a model of Earth. Your teacher will show you a globe. Each dot on the globe stands for one hour of time. Record the number of dots there are in all.
- 3. Record Data** Use a flashlight to model the Sun. Shine it on the side of Earth where Oregon is. The top of the globe should be tilted toward the Sun. Oregon should just be entering the light. Count the dots that are in the light. Write this number on your chart.
- 4. Use Models** Slowly, spin the globe until Oregon is just entering the darkness. Count the dots that are in darkness. Write this number on your chart.

Conclusion

Write the answers to the questions below.

1. **Use Numbers** How many dots are on the globe? Why are there that many dots?

2. **Analyze Data** Compare the number of dots in light to the number in darkness.

3. **Use Models** Based on your observations, is daytime always the same length as nighttime? Is daytime or nighttime longer in Oregon when Oregon is tilted toward the Sun?

Investigate More!

Design an Experiment Experiment to find out the length of daylight in Oregon when Oregon is tilted away from the Sun. Predict whether daytime or nighttime will be longer. Test your idea.