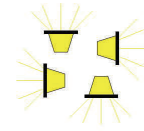


Season Globes Data Sheet



Station 2



Station 4

Station 3



Name _____

Circle your hypothesis:

Seasons are caused by Earth's *CHANGING DISTANCE* from the Sun **OR**
Seasons are caused by Earth's *TILT*.

DISTANCE

Directions: Record the data as it is gathered in the appropriate box. Answer all questions. Readings are in "V" (Volts).

- 1) How far is the globe from the light?
- 2) How big was the change in distance?
- 3) What is the % change in distance?

Station 1, Utah
Near: <input style="width: 100px; height: 20px;" type="text"/>
Far: <input style="width: 100px; height: 20px;" type="text"/>
Difference: <input style="width: 100px; height: 20px;" type="text"/>

Station 1

TILT

Max Readings

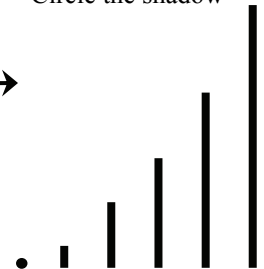
Utah:	
Argentina:	

4) Is Utah in daylight for: half a rotation, less than half, more than half?

5) How long is the shadow of the peg near New York (when shortest)?



Circle the shadow



6) Is the Sun HIGH, MEDIUM or LOW in the sky when the peg's shadow is shortest at this station?

Station 2

TILT

Max Readings

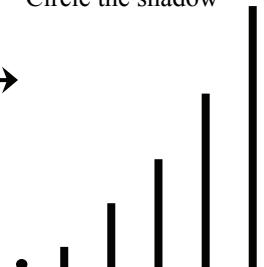
Utah:	
Argentina:	

7) Is Utah in daylight for: half a rotation, less than half, more than half?

8) How long is the shadow of the peg near New York (when shortest)?



Circle the shadow



9) Is the Sun HIGH, MEDIUM or LOW in the sky when the peg's shadow is shortest at this station?

Station 3

TILT

Max Readings

Utah:

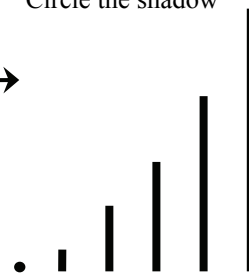
Argentina:

10) Is Utah in daylight for: half a rotation, less than half, more than half?

11) How long is the shadow of the peg near New York (when shortest)? →

12) Is the Sun HIGH, MEDIUM or LOW in the sky when the peg's shadow is shortest at this station?

Circle the shadow



Station 4

TILT

Max Readings

Utah:

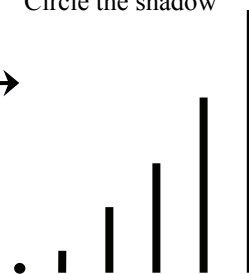
Argentina:

13) Is Utah in daylight for: half a rotation, less than half, more than half?

14) How long is the shadow of the peg near New York (when shortest)? →

15) Is the Sun HIGH, MEDIUM or LOW in the sky when the peg's shadow is shortest at this station?

Circle the shadow



Data Analysis

DISTANCE Affect

TILT Affect

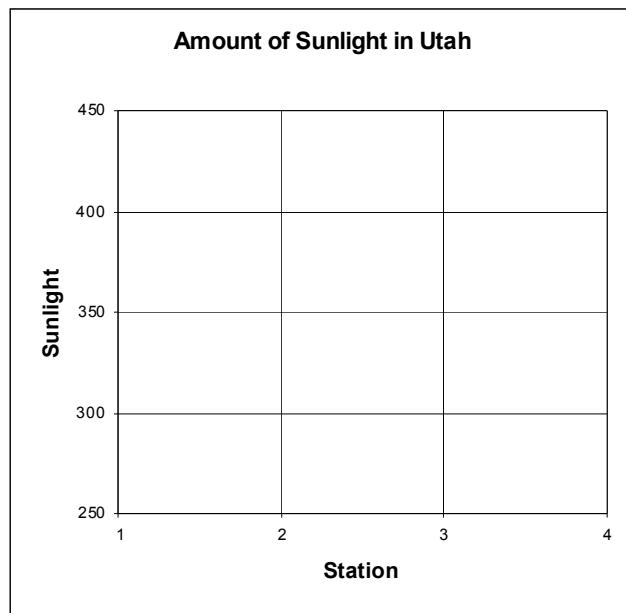
1) Which station represents Utah's Summer? Why?

2) Which has a greater affect, distance or tilt?

3) What is the reason that we have seasons?

4) Compare shadow length at each station. Which season has the longest shadows? ___ The Shortest? ___ Why?

TILT



Use different colors for Utah and Argentina