Season Globes Data Sheet

		Scason Gloses Bata Sil		
Name _		wath acid		Station 1
Circle	your ny	pothesis:		
Seasor OR	ns are o	aused by Earth's CHANGING DISTANCE from the Sun	Station 2	Station 4
Seasor	ns are o	aused by Earth's TILT.		////
		Part 1: Distance	Station 3	•
Directi	ons: A	nswer all questions. Record maximum voltage. Do this fo	or only Utah in on	y one station.
1.	What	is the distance from the globe to the light?		Voltage maximum
2.	How I	oig is the change in distance?	Near:	
3.	What	is the % change in distance? (See equation in Part 3.)	Far:	
	_	, ,	Difference (%):	
Ctatio	<u> </u>			
Statio	on T	Part 2: Tilt		
Directi	ons: A	nswer all questions. Record maximum voltage.		Voltage maximum
4.		h in daylight for: half a rotation, less than half, or than half? (Circle one.)	Utah:	
_			Argentina	
5.	5. How long is the shadow of the peg near New York (at its shortest)? (Circle the shadow.)			
6.		the shadow is at its shortest for this station, is the Sun'igh, medium, or low? (Circle one.)	s position in the	
Statio	n 2			
Directi	ons: A	nswer all questions. Record maximum voltage.		Voltage maximum
7.	Is Utah in daylight for: half a rotation, less than half, or more than half? (Circle one.)		Utah:	
			Argentina	
8.		ong is the shadow of the peg near New York (at its est)? (Circle the shadow.)		→
9.		the shadow is at its shortest for this station, is the Sun' igh, medium, or low? (Circle one.)	s position in the	

Station 3

Directions: Answer all questions. Record maximum voltage.

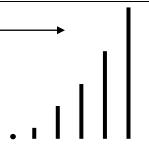
10. Is Utah in daylight for: half a rotation, less than half, or more than half? (Circle one.)

Voltage maximum

Utah:

Argentina

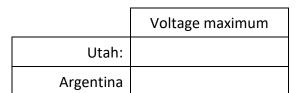
- 11. How long is the shadow of the peg near New York (at its shortest)? (Circle the shadow.)
- 12. When the shadow is at its shortest for this station, is the Sun's position in the sky: high, medium, or low? (Circle one.)



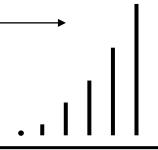
Station 4

Directions: Answer all questions. Record maximum voltage.

13. Is Utah in daylight for: half a rotation, less than half, or more than half? (Circle one.)



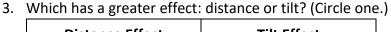
- 14. How long is the shadow of the peg near New York (at its shortest)? (Circle the shadow.)
- 15. When the shadow is at its shortest for this station, is the Sun's position in the sky: high, medium, or low? (Circle one.)



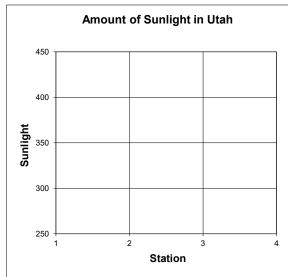
Part 3: Data Analysis

Directions: Plot data from part 2 on the graph. Answer all questions.

- 1. Which station represents Utah's summer? How do you know?
- 2. Which season has the longest shadows? Which season has the shortest? Why?



Distance Effect	Tilt Effect	



 $Percent \ Change = \frac{Larger \ number - Smaller \ number}{Smaller \ number} * 100$

