STUDENT DATA SHEET

DATA SHEET - EARTH POSITION 1

NAME:

STUDY QUESTION:

When the Earth is in this position (see picture below), which hemisphere has longer days? North or South?





Hemisphere	Time (seconds)	Notes
Pushpin in the Northern Hemisphere		
Pushpin in the Southern Hemisphere		

Hypothesis: _____

Test your hypothesis:

- 1. Position the flashlight "Sun" and the styrofoam ball "Earth" as you see in figure 1.
- 2. Slowly spin the Earth one full rotation while observing which pushpin (north or south) stays in the light longer with the Earth tilted.
- Using two timers, measure the amount of time, during one full rotation, that each pushpin stays in the light. Be sure to measure both pushpins simultaneously to ensure that the speed of "Earth's" rotation remains the same when testing for both pushpins.
- 4. Record your findings in the data table.

DATA SHEET - EARTH POSITION 2

STUDY QUESTION:

NAME:

When the Earth is in this position (see picture below), which hemisphere has longer days? North or South?



Hypothesis: ____

Test your hypothesis:

- 1. Position the flashlight "Sun" and the styrofoam ball "Earth" as you see in figure 2.
- 2. Slowly spin the Earth one full rotation while observing which pushpin (north or south) stays in the light longer with the Earth tilted.
- Using two timers, measure the amount of time, during one full rotation, that each pushpin stays in the light. Be sure to measure both pushpins simultaneously to ensure that the speed of "Earth's" rotation remains the same when testing for both pushpins.
- 4. Record your findings in the data table



winter? Move the pushpins in your model to the approximate locations of Hawaii and Alaska to test your hypotheses.