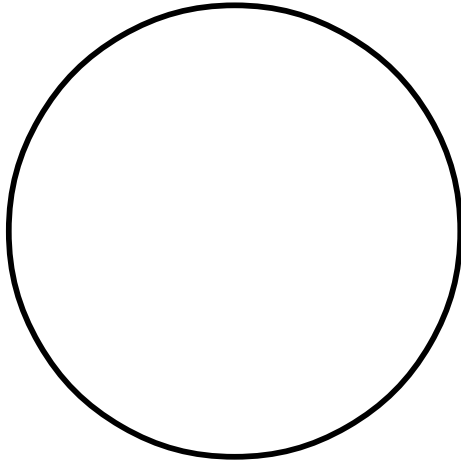


Name: \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

## EARTH IN MOTION

Use the [Earth in Motion Link](#) to answer these questions.

1. Draw and label the following places on the globe below:



Northern Hemisphere  
Southern Hemisphere  
Equator  
Axis  
North Pole  
South Pole

2. How many hours does it take for Earth to rotate around its axis one time?

3. Briefly explain how Earth's rotation on its axis causes night and day:

4. How long does it take for Earth to orbit the sun one time? Include the length in days as well as years.

5. Do all three activities and sign here when you have completed them:

For the next questions use the [Season Simulator Link](#)

6. Using the simulator, find the position of Earth in the month of **December**. Is the Northern Hemisphere pointed towards or away from the sun?

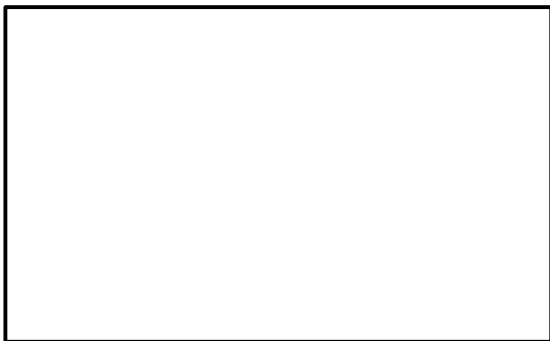
7. How do you think this affects temperatures in December in the Northern Hemisphere?

8. Using the simulator, find the position of earth in the month of **June**. Is the Northern Hemisphere pointed towards or away from the sun?

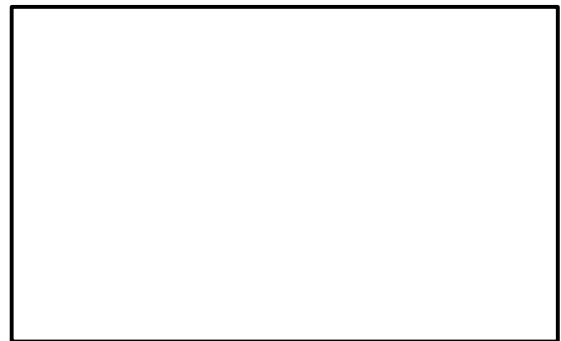
9. How do you think this affects temperatures in June in the Northern Hemisphere?

10. How do you think this affects temperatures in the **Southern Hemisphere** in June?

11. Position the Earth for **today's date**. Use the stick figure in the upper right hand picture to draw the following:



*With the stick figure at the equator, draw the angle the sun light hits Earth (as seen in the bottom righthand picture)*



*Move the stick figure to the same latitude as Maine, draw the angle the sun light hits Earth (as seen in the bottom righthand picture)*

12. How does this show why it is warmer near the equator?