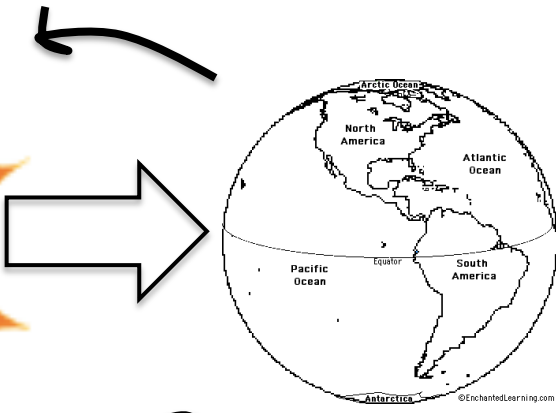
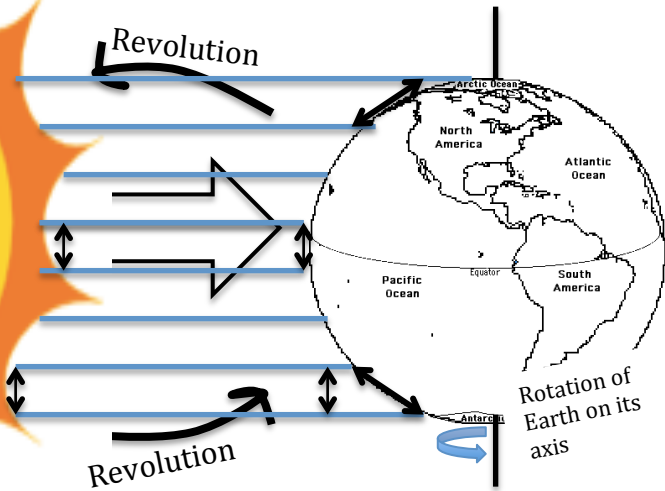


Name: _____ **The Season Cycler:** Read all directions, make all marks on the cyclor **and** the model below, answer all questions below.



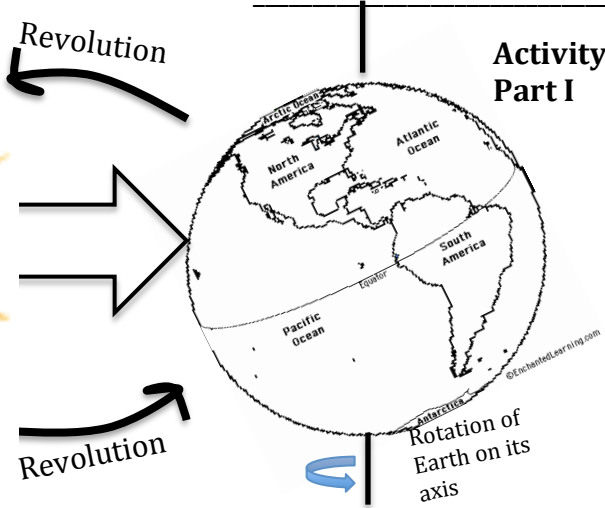
Activity #1

- I. Another example of a revolution involves the movement of the moon around the _____.
- IV. The movement of the sun within the Milky Way galaxy would be termed or called _____. The changing of night to day is caused by the constant _____ of the Earth on its axis. What are the differences between a rotation and a revolution? _____

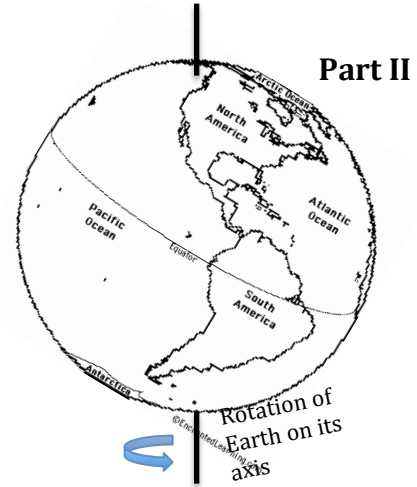


Activity #2

- II. Why is there a difference? _____
- Do the poles receive the same amount of solar radiation as the equator? _____
- Explain. _____



Activity #3 Part I



Part II

Activity #3 (continued)

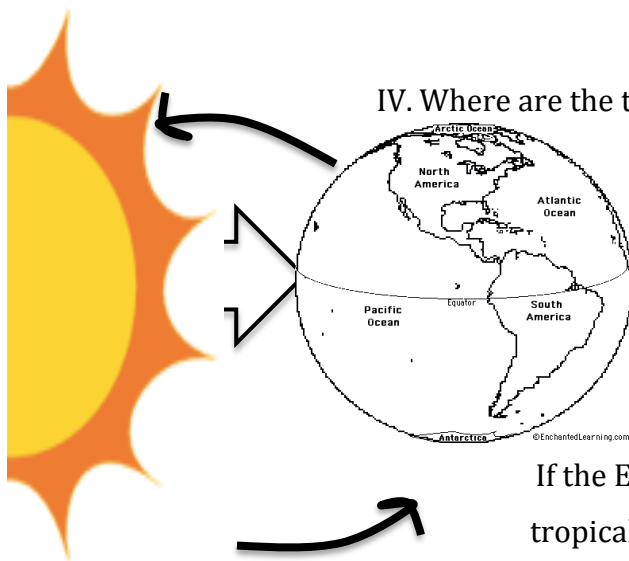
II. The angle between the original and the tilted axis is _____ degrees.

III. Because of the tilting of the Earth, what general areas on the Earth receive the most solar radiation?

What could result if the Earth's tilt was increased to 30 degrees? _____

What accounts for the seasonal changes on the Earth? _____

Activity #4

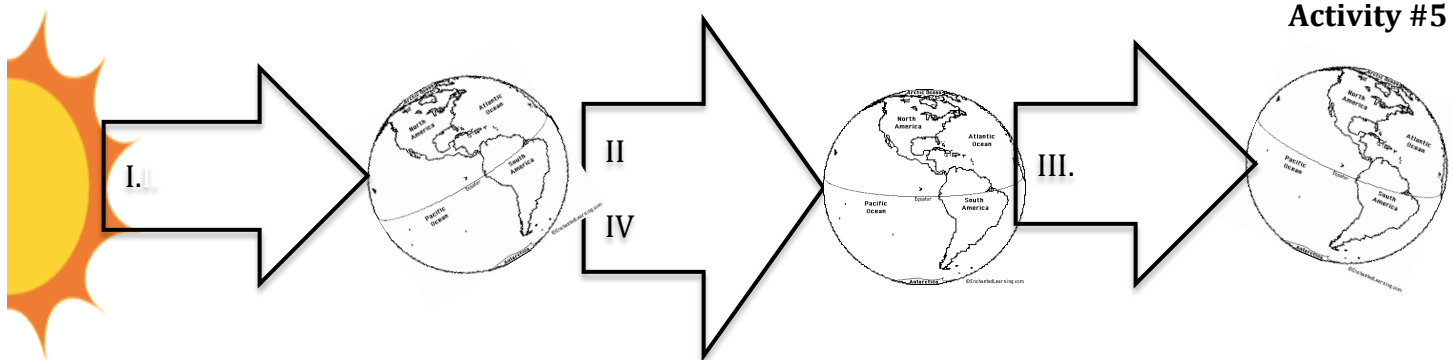


IV. Where are the tropics located on Earth? _____

Explain why the Tropic of Cancer and Tropic of Capricorn are the same distance north or south of the equator

If the Earth's axis was tilted 30°, what effect would this have on the tropical latitudes? _____

Activity #5



V. When it is winter in the N. hemisphere, what season is it in the S. hemisphere? _____

You live in the N. hemisphere, what length of shadow will you cast on 12/21? Long or Short? Explain _____

What do 3/21 and 9/21 have in common? _____

You are standing at the equator, in which direction will you cast a shadow at noon on 6/21? _____

Explain _____