



There are five special lines of latitude on the globe. One of these lines is the Equator. Locate the Equator on your globe. In the drawing the direct rays of the Sun are striking the Equator on what two days? These days are the start of which seasons on the Northern Hemisphere?

1. Day \_\_\_\_\_ Season \_\_\_\_\_      2. Day \_\_\_\_\_ Season \_\_\_\_\_

The arrow that points at June 21<sup>st</sup> is pointing to a line of dashes north of the Equator. On December 22<sup>nd</sup>, the arrow is pointing at a line of dashes south of the Equator. Find and identify these lines on your globe. Write the names of these Sun lines on the space provided.

3. June 21<sup>st</sup> \_\_\_\_\_      4. December 22<sup>nd</sup> \_\_\_\_\_

There are two more lines that are made of dashes on the globe. Find these on the globe. List the names of these lines according to location.

5. \_\_\_\_\_ is  $23\frac{1}{2}^\circ$  south of the North Pole  
 6. \_\_\_\_\_ is  $23\frac{1}{2}^\circ$  north of the South Pole

All of these lines are the same number of degrees from either the Equator or one of the poles. This relates to  $23\frac{1}{2}^\circ$  tilt of the Earth.

### Opposite Season

When it is winter in the Northern Hemisphere it is summer in the Southern Hemisphere. The seasons are exactly the opposite. Look at the drawing again. On June 21<sup>st</sup>, the Arctic Circle is tilted toward the Sun. This is the first day of summer in the Northern Hemisphere. The Antarctic Circle is tilted away from the Sun. This is the first day of winter in the Southern Hemisphere.

Check the answer:

7. On December 27<sup>th</sup>, the Arctic Circle is tilted \_\_\_\_\_ toward \_\_\_\_\_ away from the Sun.  
 8. December 22<sup>nd</sup> is the first day of \_\_\_\_\_ summer \_\_\_\_\_ winter in the Southern Hemisphere.  
 9. What is the first day of fall in the Southern Hemisphere? \_\_\_\_\_

## The Seasons Review

- \_\_\_\_\_ 1. How long does one rotation of the earth take?
- \_\_\_\_\_ 2. The rotation of the earth is responsible for what?
- \_\_\_\_\_ 3. How long does one revolution of the earth take?
- \_\_\_\_\_ 4. What is caused by the tilt of the earth on its axis as it moves around the sun?
- \_\_\_\_\_ 5. To what degree does the earth tilt?
- \_\_\_\_\_ 6. The longest day of the year in the Northern Hemisphere occurs on or about what date?
- \_\_\_\_\_ 7. On the longest day of the year in the Northern Hemisphere all points north of what line received 24 hours of daylight?
- \_\_\_\_\_ 8. Along what line do the direct rays of the sun fall on the longest day of the year in the Northern Hemisphere?
- \_\_\_\_\_ 9. The longest and shortest days of the year are called what?
- \_\_\_\_\_ 10. On the longest day of the year in the Northern Hemisphere all points south of what line receive 24 hours of darkness?
- \_\_\_\_\_ 11. The longest day of the year in the Northern Hemisphere marks the beginning of what season?
- \_\_\_\_\_ 12. All places on earth received 12 hours of daylight and 12 hours of darkness on 2 dates. What are they?
- \_\_\_\_\_ 13. These dates are also known as the vernal and autumnal \_\_\_\_\_
- \_\_\_\_\_ 14. On these days, the direct rays of the sun fall along what line?
- \_\_\_\_\_ 15. What would happen if the earth did not tilt on its axis as it moves around the sun?