

<p>Why is it winter in the US in Dec/Jan and summer in the US in Jun/Jul? What is happening in Brazil and why?</p> <p>1.</p>	<p>Because of the curvature of Earth and Earth's tilt, the sunlight that strikes Earth's surface changes at different times of the year, causing uneven heating. However, latitude, distance above or below the equator, is the main factor influencing climate. The Earth's tilt is consistent throughout its orbit, causing the Northern Hemisphere to tilt toward the sun in June-August, summer. The Southern Hemisphere tilts toward the sun during December-February, causing it to be summer opposite of the Northern Hemisphere. Winter in each hemisphere occurs oppositely for the same reason.</p> <p>2.</p>
<p>Because of Earth's tilt, the angle at which sunlight strikes Earth at different times of year causes the Northern and Southern Hemispheres to experience more and less intense sunlight and thus opposite periods of higher (warmer) and lower (lower) average temperatures (seasons).</p> <p>3.</p>	<p>Why is there more daylight in the summer days than winter days? How does the amount of daylight affect temperatures at different places on Earth?</p> <p>4.</p>
<p>Earth's consistent tilt toward the North Star produces opposite seasons in the northern and southern hemispheres.</p> <p>5.</p>	<p>Earth's tilted axis results in differing amounts of daylight over the course of the year. The differences in how long the sun shines affects how much the area gets heated up by the Sun, and thus, its temperature.</p> <p>6.</p>
<p>Temperatures on Earth's surface vary according to latitude (how far north or south a location is from the equator) and time of year.</p> <p>7.</p>	<p>What patterns in temperature can you find on Earth at different times of the year?</p> <p>8.</p>
<p>Because Earth is a sphere, the sun's light hits Earth's curved surface more directly close to the equator and less directly closer to the poles. The difference in the angle of sunlight striking Earth's surface at different latitudes causes uneven heating.</p> <p>9.</p>	<p>Why is it summer in the United States (North America) when it is winter in Brazil (South America)?</p> <p>10.</p>



Why are places closer to Earth's equator hotter than places farther away from the equator?

11.

Why are some places on Earth hotter than others at different times of the year? How can we use what we have learned to answer our Unit Central Question?

12.



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