**Vocabulary**

**axis** an imaginary line that Earth spins around, that passes from the North Pole to the South Pole through Earth’s center

When you ride a carousel, you can see the axis that it spins around. The Earth’s axis is invisible. It is the straight line around which the whole planet spins. Each planet and moon has its own axis.

**rotate** to spin around a straight line that holds still

To rotate means to spin completely around. The wheels on a car rotate. A basketball spinning on a player’s fingertip rotates. Earth rotates once every twenty-four hours. The straight line around which it rotates is called its axis.

**solar system** the Sun and all the objects that move around it

The word solar refers to the Sun. There are nine planets and almost 150 known moons in our solar system. All of these objects get their light and energy from the Sun.
Why Does Earth Have Day and Night?

Shade the side of Earth that has night. Label the Day and Night sides of Earth.

Diagram not to scale
Section 1 Assessment

Vocabulary

1. What word names the Earth action that causes day and night? Circle your answer.

   rotate  solar system  axis

Day and Night

2. Why does the Sun rise in the east and set in the west?

Comparing Time of Day

Look at the globe but do not touch it. The globe is set up so it is sunrise where you live. Which places are having these other times of day? Fill in the chart below with the correct names from the labels on the globe.

<table>
<thead>
<tr>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>sunrise</td>
<td>your state</td>
</tr>
<tr>
<td></td>
<td>midday</td>
</tr>
<tr>
<td>sunset</td>
<td></td>
</tr>
<tr>
<td>midnight</td>
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