

## EARTH IN SPACE

The Sun, which is a star, is Earth's source of heat and light.

It takes the Earth 24 hours to turn or rotate completely one time. The Earth's **rotation** every 24 hours results in day and night on Earth. While the Earth rotates, half of the Earth faces the sun, experiencing day, while the other half is in darkness, experiencing night. The Earth rotates at the very SAME speed every day for each of the 24 hours it takes Earth to rotate once completely.

The Earth rotates on its axis. An **axis** is an imaginary straight line running through the center of the earth, from the North Pole to the South Pole, around



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The Earth also travels in a circle around the Sun. The Earth's path around the Sun is called its **orbit**. When it travels around its circle or orbit one time, we call it a **revolution**. This is how we measure one year.

## Earth's Seasons

The Earth's revolutions have to do with its seasons. As the Earth rotates on its axis and circles the sun, different parts of Earth are closer to the Sun than others. How much heat and light we get on planet Earth depends on how close Earth is to the Sun.



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on its axis and where it is in comparison to the Sun is the reason for the seasons on Earth.

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The length of daylight on Earth changes during each season. Even though every day is always 24 hours no matter what season it is, winter days have the shortest amount of daylight and the summer days have the longest.

**Lesson Checkpoint:**  
**How long does it take the moon to make one revolution of its orbit?**

## The Moon

The moon goes through different phases about every 4 weeks:



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It's time for a **FULL moon**. When the sun and moon are on opposite sides of the Earth, the moon appears full, because the sun is reflecting its light completely on the half of the moon that we can see on Earth.



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During the **last quarter phase**, only one quarter of the moon's surface be seen from Earth.

During the moon's **waning crescent** phase, only a sliver of the moon's surface can be seen from Earth.

A **constellation** is a group of stars that make a pattern in the night sky.

**Lesson Checkpoint:**  
*Is a waxing moon growing or shrinking?*