

## Sun, Earth and Moon

### Discussion Cards



The Earth stays still on its axis, giving us night and day.



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## Sun, Earth and Moon

### Discussion Cards



The sun moves across the sky.



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## Sun, Earth and Moon

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The Earth and sun are part of the solar system, the Earth at its centre.



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## Sun, Earth and Moon

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The sun goes behind a hill at night.



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## Sun, Earth and Moon

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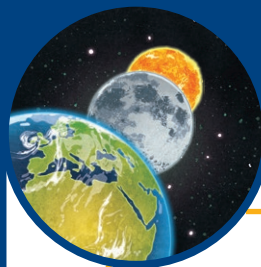
The sun is too far away at night for its light to be seen.



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## Sun, Earth and Moon

### Discussion Cards



Clouds cover the sun at night.



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## Sun, Earth and Moon

### Discussion Cards

The moon covers the sun at night.



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## Sun, Earth and Moon

### Discussion Cards

The sun goes around the Earth once a day.



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## Sun, Earth and Moon

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The Earth goes around the sun once a day.



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## Sun, Earth and Moon

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Earth is flat like a plate, so it seems round when you're over it and flat when you are on it.



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Changing the time on clocks changes the amount of daylight.



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At the North and South poles, the day and night are the same length all year round (e.g., 12 hours of light and 12 hours of darkness in a day).



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## Sun, Earth and Moon

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The Earth is round like a ball, but people only live on the flat parts in the middle.



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The Earth rotates in a clockwise manner.



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## Sun, Earth and Moon

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Earth is closer to the sun during summer and further away during winter.



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## Sun, Earth and Moon

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Seasons happen at the same time everywhere on Earth.



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An Earth day is 24 hours because it spins on its axis once every four hours.



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At any time,  $\frac{3}{4}$  of the Earth is in sunlight (day) while the other  $\frac{1}{2}$  is in darkness (night).



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The sun shines during the day, and the moon shines at night.



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The sun and the moon are on different sides of the Earth and the Earth rotates facing one and then the other.



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The sun produces light only for the Earth.



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The sun goes around the Earth.



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The sun moves to cause day and night.



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A day is the time it takes the Earth to move around the sun.



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A day is the time it takes for the sun to move around the Earth.



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Night occurs when the moon covers the sun.



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The Sun does not rotate.



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The Earth is larger than the sun.



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It is only dark at night because we need to sleep.



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The sun and moon are the same size.



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## Sun, Earth and Moon

### Discussion Cards

The side of the Earth facing the sun is in Earth's own shadow (night), while the side facing away is daylight.



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### Discussion Cards

The Earth spins in a clockwise direction when viewed from the North Pole.



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## Sun, Earth and Moon

### Discussion Cards

The east coast of Australia has sunrise at the same time as the west coast.



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### Discussion Cards

Spinning and orbiting are the same.



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## Sun, Earth and Moon

### Discussion Cards

The sun and the whole solar system are not moving through the Galaxy.



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## Sun, Earth and Moon

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Solar noon (halfway between sunrise and sunset, when the sun is at its highest point in the sky) is the same as clock noon. The sun is directly overhead at noon.



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Sundials can work without the sun.



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Shadows do not change length or direction throughout the day.



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## Sun, Earth and Moon

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The sun turns off to make the night.



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## Sun, Earth and Moon

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The Moon does not rotate.



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## Sun, Earth and Moon

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The Moon becomes larger on the horizon because it is closer to Earth.



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## Sun, Earth and Moon

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The phases of the Moon are caused by shadows from the Earth, clouds, or the Earth's or Moon's rotation.



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## Sun, Earth and Moon

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The same half of the Moon is always in darkness -i.e. there is a dark side of the Moon.



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## Sun, Earth and Moon

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We can't feel the Earth turning because it is moving so slowly.



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The Sun is the only star that appears to move across our sky.



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## Sun, Earth and Moon

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The Moon can only be seen at night, so it causes night.



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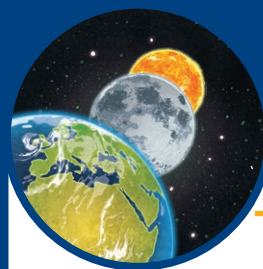
## Sun, Earth and Moon

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The Sun is not a star.



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## Sun, Earth and Moon

### Discussion Cards

The Moon does not rotate on its axis as it revolves around the Earth.



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## Sun, Earth and Moon

### Discussion Cards

The sun rises exactly in the east and sets exactly in the west every day.



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## Sun, Earth and Moon

### Discussion Cards

The earth is the largest object in the solar system.



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## Sun, Earth and Moon

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The phases of the Moon are caused by the Moon moving into the Sun's shadow.



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## Sun, Earth and Moon

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Stars and constellations appear in the same place in the sky every night.



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The shape of the moon always appears the same.



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Different countries see different phases of the Moon on the same day.



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The Moon makes light the same way the Sun does.



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The Moon goes around the earth in a single day.



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Seasons are caused by the Earth's changing distance from the Sun. Winter occurs when the Earth is furthest away from the Sun, and summer occurs when it is closest to it.



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