

Chacewater School – LEAP Into Learning – Spring 2 – Red Oaks
SCIENCE: Space and Earth

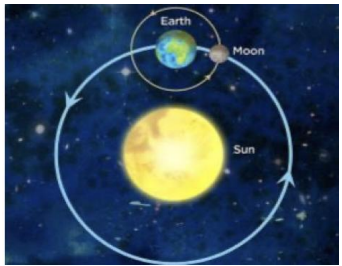


What I might already know: The sun doesn't move across the sky (year 3 – light)



What we will be learning:

How do the Earth, Sun and Moon move ?



The Earth takes **24hrs** to do a full spin.

It takes a little more than **365 days** for the Earth to make a trip around the Sun.

The Moon orbits the Earth. This takes **28 days**

Research Using Secondary Resources



How have our ideas about the solar system changed ?

Flat Earth?

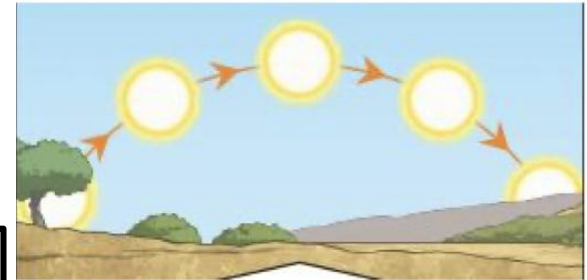


Spherical Earth?



Does the Sun move across the sky?

It seems that way, but it is **Earth that is moving**



Observing Over Time



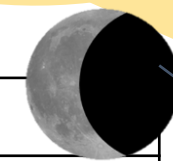
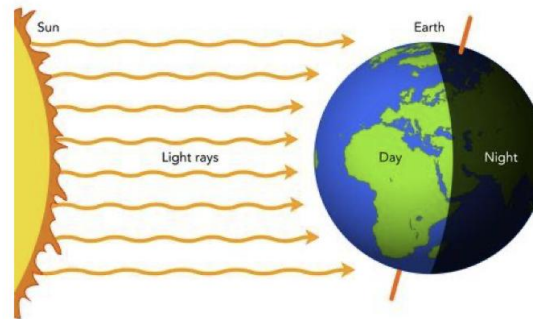
Why does the Moon appear to change shape?

As the Moon moves, some of the light is **blocked from the Sun by the Earth**.

This means we see different parts of the Moon

These shapes are called the **phases of the Moon**.

Day and night



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SCIENCE: Space and Earth

What I might already know: The sun doesn't move across the sky (year 3 – light)



What we will be learning:

How do the Earth, Sun and Moon move in relation to each other?



The Earth takes **24hrs** to complete a full spin.

It takes a little more than **365 days** for the Earth to make a complete trip around the Sun.

The Moon orbits the Earth. This takes **28 days** or one lunar month.

Earth rotates (spins) on its **axis** whilst orbiting the Sun.

The moon **orbits** Earth in an oval-shaped path whilst it spins on its axis.



How have our ideas about the solar system changed over time?

Research Using Secondary Resources



Flat Earth?



Spherical Earth?

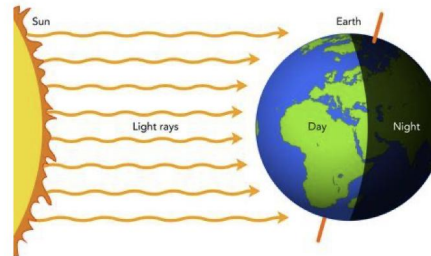


Does the Sun move across the sky?

The Sun appears to be in constant motion—rising on one side of the sky, moving across the sky, and setting on the opposite side. This apparent motion across the sky is **due to the rotation of Earth**.



Day and night



Why does the Moon appear to change shape?

Observing Over Time



As the Moon moves, some of the light is **blocked from the Sun by the Earth**. This means we see different parts of the Moon as it makes its orbit around Earth.

The Moon appears to change shape as we see more or less of it. These shapes are called the **phases of the Moon**.

Daytime occurs when the side of the **Earth** is **facing the Sun**.

Night occurs when the side of the Earth is **facing away from the Sun**.

