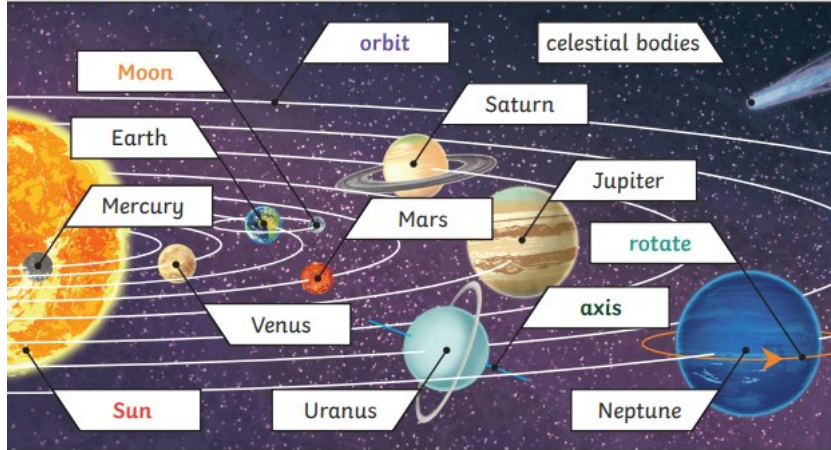


Key knowledge

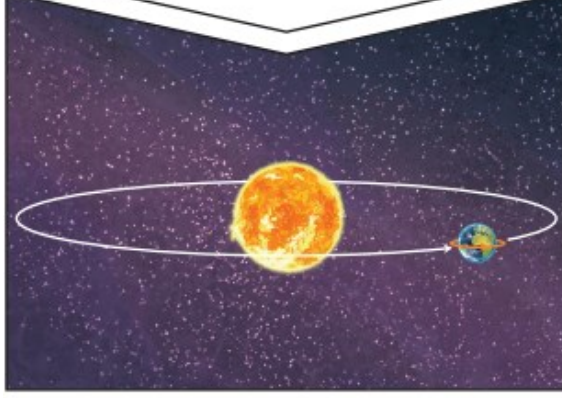
Mercury, Venus, Earth and Mars are rocky **planets**. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.

Our Solar System (not to scale)



The **Moon** orbits Earth in an oval-shaped path while spinning on its **axis**. At various times in a month, the **Moon** appears to be different shapes. This is because as the **Moon** rotates round Earth, the **Sun** lights up different parts of it.

Earth **rotates** (spins) on its **axis**. It does a full **rotation** once in every 24 hours. At the same time that Earth is **rotating**, it is also **orbiting** (revolving) around the **Sun**. It takes a little more than 365 days to **orbit** the **Sun**. Daytime occurs when the side of Earth is facing towards the **Sun**. Night occurs when the side of Earth is facing away from the **Sun**.



Famous Scientists



**Maggie Aderin-Pocock**  
Astronomer and science communicator

Investigation

To report and present information to answer their questions about Space.

- Can I identify a good research question?
- How will I present my information in a way that others can understand?

What we will learn:

- To describe the movement of the Earth and other planets relative to the sun in the solar system
- To describe the movement of the moon in relation to the Earth
- To describe the Sun, Moon and Earth as spherical bodies
- To use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

Key Vocabulary

<b>Sun</b>	A huge <b>star</b> that the Earth and other planets in our solar system <b>orbit</b> round
<b>star</b>	A giant ball of gas held together by it's own gravity
<b>moon</b>	A natural <b>satellite</b> which <b>orbit</b> -Earth or other planets
<b>planet</b>	A large object, round or nearly round, that orbits a <b>star</b>
<b>sphere</b>	A round 3D shape in the shape of a ball
<b>Spherical bodies</b>	Astronomical objects shaped like <b>spheres</b>
<b>satellite</b>	Any object or body in space that orbits something else, e.g. the <b>moon</b> is a <b>satellite</b> of the Earth
<b>orbit</b>	To move in a rectangular, repeating curved path around another object
<b>rotate</b>	To spin. E.g. the Earth rotates on it's own axis
<b>axis</b>	An imaginary line that a body rotates around. E.g. Earth's axis runs from North to South Pole
<b>Geocentric model</b>	A belief people used to have that the other planets and the <b>Sun</b> <b>orbited</b> around Earth
<b>Heliocentric model</b>	The structure of the Solar system where the planets <b>orbit</b> - <b>ed</b> around the <b>Sun</b>