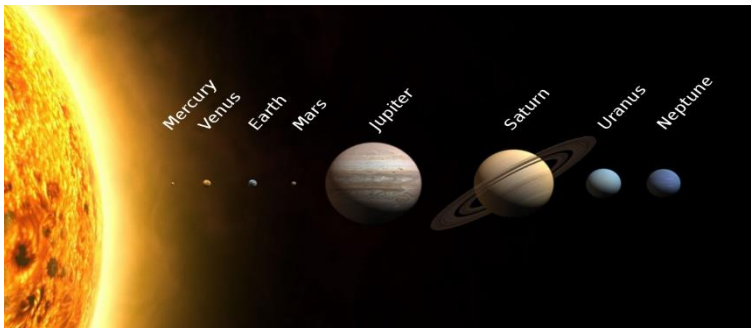


Year 5 Knowledge Organiser- What would we find beyond our planet?

In this topic we will learn to:

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
- describe the Sun, Earth and Moon as approximately spherical bodies.
- describe the movement of the Moon relative to the Earth.
- Describe what makes it night or day.



Previous learning

Year 2

Year 3

You should already know:

- The first moon landing and who went to space.
- How shadows occur

Vocabulary Dozen

astronaut	A person who travels in a spacecraft.
axis	A line through the centre of a spinning object.
clockwise (anti-clockwise)	In the same (or opposite) direction as the way in which the hands of a clock move round.
ignition	The process of lighting the fuel and starting the engine.
Moon	A large natural object that orbits, or travels around Earth.
orbit	Move in an orbit around something.
planets	One of the bodies that move in an orbit around the sun. the main planets of the solar system are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto.
rotate	To turn around an axis.
star	A giant ball of hot gas that shines, producing light and heat.
solar system	The sun and the planets that revolve around it.
spherical	Shaped like a sphere (ball-shaped)
Sun	The star at the centre of our solar system

Key Knowledge

The solar system-

The Sun is the centre of our solar system. It is orbited by 8 planets. The four inner planets are made of rock and are relatively small. The four outer planets are gas planets. They are much larger. The inner and outer planets are separated by an asteroid belt (between Mars and Jupiter). The largest planet in the solar system is **Jupiter**, followed by **Saturn**, **Uranus**, **Neptune**, **Earth**, **Venus**, **Mars** with the smallest being **Mercury**.



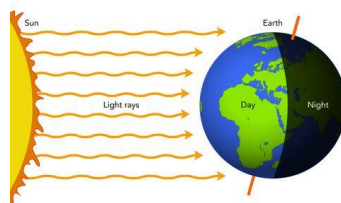
only see one side of the Moon.

The moon-

The Moon orbits the Earth anticlockwise and takes approximately 28 days. The Moon spins once on its axis every time it **orbits** Earth. This means that we

Day and night-

Earth rotates (spins anticlockwise) on its **axis**, it does a full spin once every 24 hours, which is our day and night. Daytime occurs when the side of the Earth is facing the sun and night occurs when the side of the Earth is facing away from the sun.



The Sun, Earth and Moon-

The Sun, Earth and Moon are approximately **spherical**. The Earth orbits the Sun and this takes 365 and a quarter days. Every four years, the quarter days are combined into an extra day in February. This is called a leap year. The Moon orbits Earth.

Useful Weblinks

[Where are the gas planets?](#)



[Tim Peake- Astronaut](#)



[What is the solar system?](#)

