

## Vocabulary

**rotate** – to spin around an axis

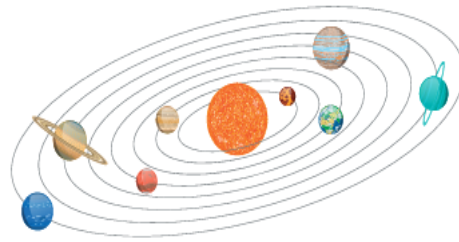


**North Pole** – the northern point of Earth's axis

**South Pole** – the southern point of Earth's axis

**axis** – an imaginary line which something rotates around

**gravitational force** – a non-contact force caused by objects with mass pulling each other



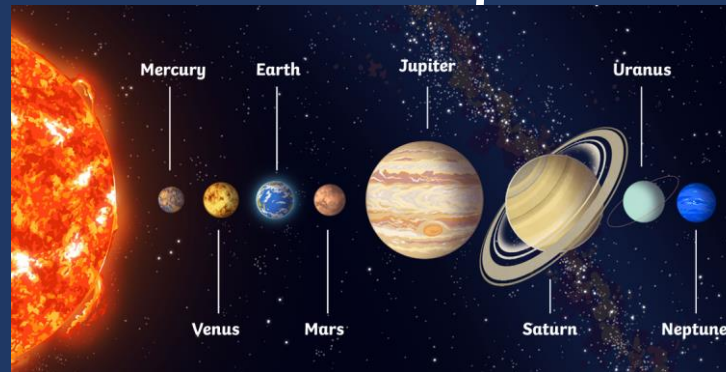
## Prior Knowledge

- Observe the apparent movement of the Sun during the day.
- Observe changes across the four seasons.
- Observe and describe weather associated with the seasons and how day length varies.
- Describe the movement of the Earth relative to the Sun in the solar system.
- Describe the movement of the Moon relative to the Earth.

## Key Skills

- Draw and label diagrams
- Compare planet sizes to scale
- Practically demonstrate night and day with a torch and ball
- Reporting on findings from enquiries, including giving explanations

## Science - Space

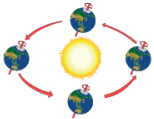


## Key Knowledge

- There are eight planets that orbit the Sun - Memorise the order of the planets
- Understand how night and day are caused by the earth's rotation
- Understand how seasons change by the earth's orbit around the sun
- It takes 365 days for earth to rotate around the sun. The extra  $\frac{1}{4}$  is what makes up a leap year (every four years)

## Vocabulary

• **orbit** – the path an object takes around another object because of gravity



• **planets** – a roughly spherical object which orbits a star



**celestial body** – an object in space



• **Solar System** – the Sun and the other bodies that orbit it



• **heliocentric model** – a model that puts the Sun at the centre of the Solar System



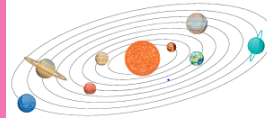
• **geocentric model** – a model that puts Earth at the centre of the Solar System



**moon** – a natural satellite that orbits Earth



**gravitational force** – a non-contact force caused by objects with mass pulling each other



**orbit** – the path an object takes around another object because of gravity



## Key Questions

- How do the planets in our solar system move, relative to the sun?
- How does the moon's movement differ from the planets in our solar system?
- What shape are the planets in the solar system?
- Why do we have day and night?
- What causes the range of seasons we experience on Earth?