

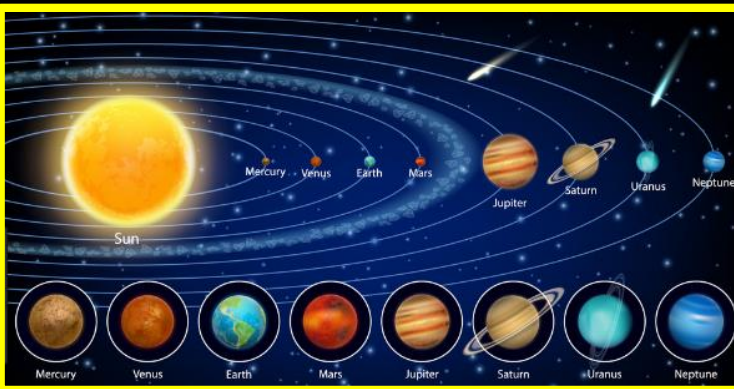
# Knowledge Organiser

## Journey into Space

In this Science based topic, you will explore into the physics of space. Over the course of your learning you will be investigating into our solar system and how it all operates.

- Do you think you're sitting still right now?
- One million Earths could fit inside the sun – and the sun is considered an average-size star.
- Earth, is the third planet from the sun and the only word known to support an atmosphere with free oxygen, oceans of water on the surface and life.
- Since you started reading this, you have travelled about 3,000km.

### WHAT ARE THE 8 MOON PHASES?



## Year 5: Journey into Space – Science Physics (Space and forces)

### Specific Vocabulary

❑ Spherical	An object that is shaped like a sphere.
❑ Rotation	The action of rotating about an axis or centre.
❑ Axis	An imaginary line about which a body (such as a planet) rotates.
❑ Orbit	A curved path of a planet, satellite or spacecraft around an object such as the sun due to the attraction of gravity.
❑ Universe	An area of space and everything in it (including stars, planets and galaxies).
❑ Atmosphere	The envelope of gases surrounding the earth or another planet.
❑ Celestial body	Any natural body outside the Earth's atmosphere, such as the Sun, Moon and the other planets.

## Sticky Learning

### Year 5: Journey into Space – Science Physics (Space and forces)

#### By the end of this unit what should pupils know?

- ❑ Know about the movement of the Earth and other planets relative to the sun in the solar system.
- ❑ Know about the movement of the moon relative to the Earth.
- ❑ Know and describe the sun, Earth and moon as spherical bodies.
- ❑ Know about the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
- ❑ Know that the sun is at the centre of our solar system and there are 8 planets.
- ❑ Know that unsupported objects fall towards the Earth because of the force of gravity.