



Knowledge Organiser - Year Five.

Earth and Space.



Key Concept: Physics (The position of Earth and its role within our solar system).

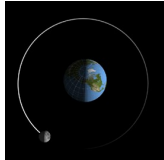
P4: The Earth is one of eight planets that orbit the sun. It has one large natural satellite called the Moon that orbits the Earth.

P5: The Earth is tilted and spins on its axis leading to day and night, the seasons and the climate.




Vital Vocabulary:	Definition:
Celestial	Describes things relating to heaven or to the sky. (a celestial body is an object visible in the sky, such as a planet)
Lunar	Related to the moon.
Heliocentric	Having the sun at its centre
Geocentric	Having the earth at its centre
Orbit	The curved path followed by a planet, moon or satellite in its motion around another celestial body.
Planet	A planet is a large, round object in space that moves around a star. (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune)
Revolve	If one object revolves around another object, the first object turns in a circle around the second object.
Rotate	Turns with a circular movement.
Solar	Used to describe things relating to the sun.
Spherical	Something that is spherical is round like a ball.
Axis	An axis is an imaginary line through the middle of something.

Phases of the moon








The moon orbits the Earth.

It takes about 28 days to complete its orbit.

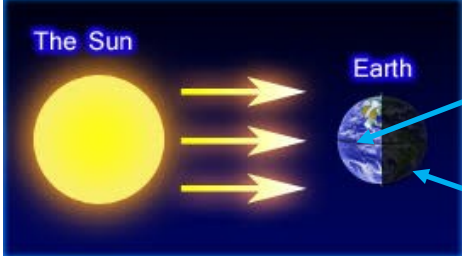


The phases of the moon are caused by its orbit around the Earth. As the moon orbits the Earth, we can see a different amount of the moon is lit by the sun from Earth.

Scientific Enquiry: Can you remember the five types of enquiry and their meanings?

Vital Vocabulary:	Definition:
Observing (over time).	 Watch and see how something changes over time.
Pattern Seeking	 Spotting any patterns in what you have seen.
Identifying, classifying, grouping	 Features that allow things to be organised into groups.
Comparative and fair testing	 KS2: Measure the effect of changing one thing while everything else remains the same.
Researching (using secondary sources)	 Gather information to answer questions and help explain events.

Day and Night




It is day for the half of the Earth facing the Sun.

It is night for the half of the Earth facing away from the Sun.

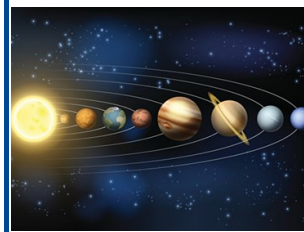
A year on Earth

The Earth orbits the Sun.

It takes 365 days to complete its orbit around the Sun. This is a year.



The Solar System



The Sun is a star at the centre of our solar system.

There are 8 planets in our solar system: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

These all orbit the Sun.