



EARTH and SPACE KNOWLEDGE ORGANISER



Key objectives and facts to learn

- To discuss what we already know about the Earth, Sun and Moon.** What have you learnt before? What have you read about Earth and space? Have you seen anything on TV?
- To know the planets in our solar system.** How many planets are in our solar system? What are they called? Can you tell me the order?
- To describe the phases of the moon.** What do we know about the moon? Why does it change? Does the moon effect Earth?
- To explain how we know the Earth is spherical.** What evidence is there to prove the Earth is spherical?
- To investigate shadows and why we have day and night.** How does the Earths movement effect shadows?
- To investigate how to protect against UV.** How does the sun affect us? Why do we need to protect ourselves? How can we protect ourselves?

Overview



- The Earth (our planet) is a part of the Solar System. At the centre of the Solar System is the Sun. The Sun is a star.
- There are 8 planets and 5 dwarf planets in the Solar System, which orbit (go around) the Sun.
- It takes Earth just over 365 days to go around the Sun (one year).
- The Earth rotates on its axis once every 24 hours (one day). This causes day and night, as different parts of the planet face the Sun.
- The Moon orbits around the Earth. The Sun, Earth and Moon are all roughly spherical.

Key Vocabulary

Sun	A star at the centre of our solar system.
Moon	A natural satellite of a planet. The Earth's moon orbits just Earth. It is visible (mainly at night) because of reflected light from the sun.
Satellite	Any object in space that orbits something else.
Orbit	The curved path of an object in space around a star, planet or moon.
Planet	A spherical body that orbits a star. A planet must be big enough that its gravity clears away any objects of a similar size near its orbit.
Star	An astronomical body of a glowing ball of gas. A star produces its own energy.
Solar system	A series of planets which orbits a star. In our solar system the star the planets orbit is the sun.
Axis	An imaginary line that a body rotates around. E.g. Earth's axis (imaginary line) runs from the North Pole to the South Pole.

Mercury



Venus



Earth



Mars



Jupiter



Saturn



Uranus



Neptune

