

Science Knowledge Organisers

Science Focus

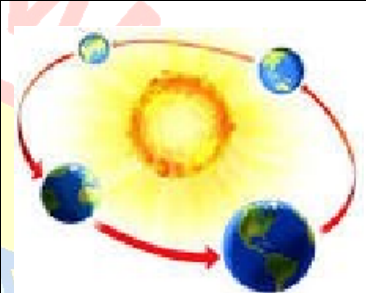
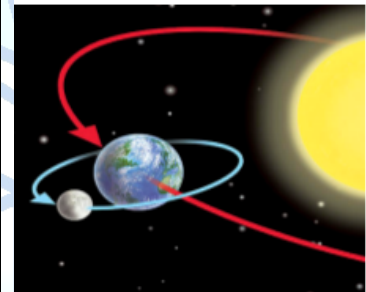
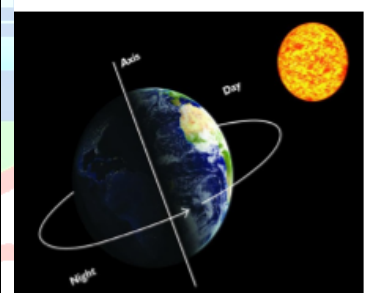
Earth and Space

Year 5

Autumn 2

Key Knowledge	
What is the Sun?	The sun is a star at the centre of our solar system.
What is the solar system?	The solar system has eight planets; Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
How is the Earth related to the Sun?	☐ The Earth orbits (goes around) the Sun. ☐ The Earth takes one year to orbit the Sun. ☐ The Earth is held in its orbit round the Sun by the Sun's gravitational pull.
What is a moon?	☐ A moon is a celestial body that orbits a planet. ☐ The Earth has one moon; Jupiter has four large moons and numerous small ones.
How is the moon related to the Earth?	☐ The Moon orbits the Earth. ☐ It takes about 28 days for the Moon to orbit the Earth. ☐ The Moon is held in its orbit round the Earth by the Earth's gravitational pull.
Why do the Moon change shape?	☐ IT DOESN'T. ☐ It appears to change shape because we cannot always see the side of the Moon that's in sunlight or we can only see part of the sunlit side of the Moon as it orbits Earth.
How else does the Earth move?	The Earth spins on its own axis. ☐ The Earth takes 24 hours (1 day) to completely rotate on its axis.
What causes day and night?	The Earth spins once in a day. ☐ The side of the Earth facing the Sun is in daytime. ☐ The side of the Earth facing away from the Sun is in night time.
What causes sunset and sunrise?	The Sun doesn't move - it is us that moves. ☐ Because the Earth is rotating, the Sun appears to move across the sky as the day goes on.

Key Vocabulary	
Solar	Relating to the Sun
Orbit	The curved path of an object around a star
Axis	An imaginary line round which something rotates
Rotating	Moving in a circle around an axis

Diagrams and Symbols	
	The Earth orbiting the Sun, which takes one year.
	The Moon orbiting the Earth, which takes about 28 days.
	The Earth spinning on its axis, which takes 24 hours.

Greater Depth Thinking

What causes the planets and moons to orbit?

What would happen if this didn't exist?

What evidence is there to support the concept of the moon and Earth orbiting?