

Year 5 - Science - Unit 3 - Earth & Space



Key Ideas & Vocabulary

The Sun is a star. It is at the centre of our solar system. There are 8 planets. These travel around the Sun in fixed orbits. Earth takes ³⁶⁵¹/₄ days to complete its orbit around the Sun. The Earth rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (day) and half is facing away from the Sun (night). As the Earth rotates, the Sun appears to move across the sky. The Moon orbits the Earth. It takes about 28 days to complete its orbit. The Sun, Earth and Moon are approximately

	earth	Our planet is called Earth. It travels in a slightly flattened path, called an orbit, around the Sun.
	moon 🗿	The Moon orbits Earth taking about 28 days to do so.
	orbit	The path that planets travel on relative to one another.
9	rotate 📿	Spin or turn around an axis which may be visible or invisible.
	spherical	A round, three-dimensional shape.
	solar system	There are eight planets in our solar system which orbit the sun.
	star 🦲	A giant sphere of hot gases.
	sun	A star - a great spinning ball of hot, glowing gas. Other planets and moons to orbit around it.

Knowledge I already have New Knowledge In Year 1, I: By the end of this unit, I will be able to: - observed changes across the four seasons. - describe the movement of the Earth, and other - observed and described weather associated with planets, relative to the Sun in the solar system. the seasons and how day length varies. - describe the movement of the Moon relative to the Earth. spherical. - describe the Sun. Earth and Moon as approximately spherical bodies. - use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. Future Knowledge **Scientific Enquiry** In KS3. I will learn: Researching using secondary sources: - to measure the force of gravity and the formula: - use secondary sources to help create a model/role weight = mass x gravitational field strength (g). I will play to show the movement of the Earth around learn that on Earth q=10 N/kg, and this is different on the Sun, the Moon around the Earth and why day other planets and stars. I will learn about gravity and night occur. forces between the Earth and the Moon, and between - research and explain why we have time zones. the Earth and the Sun. - about the Sun as a star, other stars in our galaxy Observing over time/Pattern seeking: - observe and record and other galaxies. - about why we have seasons and the Earth's tilt; how shadows caused why day length differs at different times of year, in by the Sun change different hemispheres. through the day. - about light years as a unit of astronomical distance.