

The Solar System

Finding out about the Solar System

Outcome: a detailed knowledge of the planets in our solar system and some Space background knowledge

Earth and beyond—brain busting facts!

Our planet is called **Earth**. It is the 3rd planet of 8 in order from the sun. Our solar system is defined as 'the gravitationally bound planetary system of the sun.' It incorporates everything that orbits the sun, including 8 known planets, 5 known dwarf planets, including over 500 natural satellites, over 750,000 minor planet, over 4000 comets. Our solar system is approximately 4.5 billion years old and sits within the Milky Way galaxy. The Milky Way is one of approximately 1 hundred billion galaxies in the observable universe. Our next nearest galaxy is the Canis Major Dwarf Galaxy, and travelling at the speed of light it would take 158,200 years to reach it.

Vocabulary	Definition
Astronaut	A person who is trained to travel in a spacecraft.
Constellation	A group of stars forming a recognisable pattern that is traditionally named after its apparent form or identified with a mythological figure.
Planet	A celestial body moving in an elliptical orbit around a star.
Solar System	A collection of planets and their moons orbiting a star, together with smaller bodies in the form of asteroids, meteoroids and comets.
Space	The expanse that exists beyond the Earth and between celestial bodies.
Star	A fixed, luminous point in the night sky which is a large, remote, incandescent body, like the sun.

Foundation Subjects Overview

Science – Autumn 1 & 2 Everyday materials 1 Our theme for this unit will be exploring using materials for a range of different purposes! The children will be finding out about everyday materials and their uses. They will learn about how to name and classify a range of objects and distinguish between an object and the material it is made from. They will be sorting materials and thinking about how they can be best used to suit a purpose. As the term progresses, the children will learn about changing the properties of materials as they melt and freeze water, find out about floating and sinking and think about waterproof materials and materials that absorb liquids.	SHINE–Autumn 1 & 2 TEAM During this unit, the children will talk about 'teams' they belong to inside and outside of school. They will talk about promoting good listening and kind behaviours, before finding out how to make the most of each learning experience.	History – Autumn 1 Cause & effect In History sessions, the children will learn about the history of space exploration, finding out a timeline of key events and learning about some important space missions and their crew members.	PE – Autumn 1 Attack, Defend & shoot 1 This unit will build on basic ball skills. During this unit of work, the children will learn or revise how to use their hands and feet to control, stop and move a ball around. They will learn about individual and partner work, building towards some simple team games.	Music – FOUNDATION WEEK Contrasting dynamics In this unit of work, the children learn about using their voice to create sounds, using dynamics to create atmosphere and working as part of a team to create a group soundscape.	Art – FOUNDATION WEEK Painting In this unit, children will learn about colour mixing. They will be introduced to primary, secondary colours and colour wheels. They will then investigate simple watercolour techniques and see what happens when colours mix in a finished painting.
	RE – Autumn 2 Light & Dark Through this unit, children will learn about religious festival focused on light and dark. They will find out about advent and the importance of Christmas lights before learning about Diwali and Hannukah.	Geography – Autumn 2 Maps & atlases In this unit, the children are introduced to, or revisit, map skills and using maps & atlases. They will use them to explore countries and continents, linking this to our space topic by viewing the earth from above.	PE – Autumn 2 Dance unit 1 This unit will build on basic dance skills. During this unit of work, the children will be linking to their gymnastics learning about a range of body movements, before sequencing these to create and perform a simple dance.	Computing – FOUNDATION WEEK Programming For our computing sessions this term, the children the children will learn about the cause and effects of programming a BeeBot, learning how to find simple errors in their instructions and correcting them.	DT – FOUNDATION WEEK Moving monsters This DT unit teaches the children about creating moving parts, learning about links, mechanisms and pivots. They use this knowledge to create a moving monster which is jointed and pivots!

