



St Oswald's Catholic Primary School

Science

Whole School Yearly Overview

	Autumn		Spring		Summer	
EYFS	In Nursery and Reception, children are introduced to the world around them, exploring their immediate environment. They start to identify basic elements of everyday life, such as body parts, materials and the weather. They begin to look at changes in their immediate and wider environment in a purposeful way. This includes, changes in weather and seasons, effects of simple forces on objects and materials and changes in humans and other animals. Finally, they are able to describe differences between living and non-living things in their local and wider environment.					
Year 1	Animals Including Humans: Differences between types of animals, what animals eat, characteristics of animals, parts of the human body, the five senses.		Exploring Everyday Materials: Names of everyday materials, properties of everyday materials, natural and man-made materials, suitability of materials.		Plants: How plants grow, parts of a tree and a plant, differences in types of trees, varieties of plants, recording the growth of a plant.	
	Seasonal Changes - Throughout the year The four seasons, recognising weather in different seasons, types of weather, weather symbols, recording rainfall.					
Year 2	Animals including Humans: Notice that animals, including humans, have offspring which grow into adults, describe the importance for humans of eating the right amounts of different types of food.		Living things and their habitats: Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other		Materials: Identify and compare the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard.	Plants: Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Year 3	Plants: Parts of plants, needs of plants and their life cycle.	Rocks: Comparing different rocks, fossils and soil formation.	Light: Light sources, how light is reflected off objects, how shadows form, changing shadows, eye protection.	Animals, Including Humans: Nutrition, musculoskeletal system for support, movement and protection.	Forces and Magnets: Non-contact forces, attraction and repulsion of magnets, magnetic materials and the N and S pole of magnets.	The Bee Project: The relationship between bees and their environments, importance in pollination, food and other resource.

Year 4	States of Matter / Solids, Liquids and Gases: Group materials based on their properties, changes of state, heating and cooling, the water cycle.	Animals, Including Humans: Eating, teeth, digestive system and food chains, producers, predators and prey.	Sound: Making sounds, vibrations, the ear, changes in pitch and volume.	Living things and their habitats: Classification, characteristics, and the effects of environmental changes.	Electricity: Appliances, building circuits and identifying components, circuit diagnostics, conductors and insulators.	The History of Science: This unit focuses on the development of scientific theories by a diverse range of scientists and inventors, both historical and contemporary.
Year 5	Properties and Changes of Materials: Classifying, dissolving, separating and changes of state uses of materials, reversible and irreversible changes.	Animals, Including Humans: Life cycles, plant and animal reproduction, human life cycle.	Forces: Gravity, air resistance, water resistance and friction between moving surfaces, multiplying forces using levers, pulleys and gears.	Living things and their habitats: Classifying living things, life cycles of mammals, amphibians, insects and birds.	Earth and Space: The movement of Earth, other planets and the moon in relation to the Sun and each other, spherical bodies, night and day.	The Scientific Method
Year 6	Animals, Including Humans: The circulatory system, lifestyle, health and disease, transport of water in animals.	The Science of Light: How light travels, how we see objects, the shape of shadows.	Electrical Circuits: The effects of changing the number and voltage of cells in a circuit, varying the function of components, representing circuits using symbols.	Evolution and Inheritance: What we learn by looking at fossils, variation, reproduction and adaptation, evolution.	Living Things and their Habitats: Classifying microorganisms, plants and animals.	Revision