



Curriculum Plan - Science

	Autumn	Spring	Summer
Year 1	In the Autumn term, the children will learn how to identify and name a variety of plants, including deciduous and evergreen trees. Throughout the year, we will study changes across the four seasons. We will observe and describe weather associated with the seasons and how day length varies. In our 'Animals including humans' topic, we will identify and name a variety of common animals that are carnivores, herbivores and omnivores.	In the Spring term the children will develop their knowledge about the plant's parts, animal babies and food chains, uses of materials and comparing, recording and concluding weather observations. In our 'Materials' topic, we will identify and name a variety of everyday materials comparing and grouping together a variety of everyday materials on the basis of their simple physical properties.	In Summer 1 we will return to studying plants and seasonal changes. Summer 2's topic is Holidays, we will be applying our learning to the seaside, exploring animals and materials needed for a holiday and a trip to the beach.
Year 2	Throughout the year, we will be studying plants and how they vary; planting some bulbs and seeds of our own. We will learn to recognise and understand the difference between living and non-living things. In our animal topic we will learn about baby animals and will also learn about different stage of human life. Within this, we will also be using the scientific skills of observation, data collection and recording. We will also start to discover materials.	We will begin Spring by studying the regrowth of plants. We will visit the environmental gardens and the friary gardens to explore seasonal changes. In our next science topic, we will be looking at Living things before moving on to Materials. In this topic, we will investigate how suitable a material might be to fit purpose. We will develop our knowledge of animals and how they survive.	As we return to 'Plants' we investigate how plants need water, light and suitable temperature to grow. We will consider how different animals live in local environments and explore and measure growth using mathematical skills. Our final topic, 'Little MasterChef' we will find out about and describe the basic needs of humans, for survival (water, food and air). Children will discover the importance for humans of eating the right amounts of different types of food, and hygiene.
Year 3	We will be looking at animals including humans, focusing on how skeletons and muscles work and nutrition. In We will be introduced to the study of Geology, identifying and classifying rocks, fossils, soils and ores. We will explore the different uses and qualities of rocks and will create own investigations to test the best materials for a new school roof and garden.	We will be developing our understanding of plant growth and reproduction, describing and recording changes in tables and drawing conclusions. In our next Science topic, we will be learning about forces and magnets. We will investigate how magnets work, their uses in everyday life and make our own magnetic game.	In the summer term, we will be learning about 'Light and Shadow.' This will include making light puppets, measuring shadows and investigating how light travels. We will be introduced to space and become astronauts. We will explore the moon and all aspects of an astronaut from their moon lander to spacesuits.
Year 4	In science, we will be looking at living things and their habitats. We will also study the changing environment and the effect that pollution is having on our habitats today. We will also study the human body, the simple functions of the basic parts of the digestive system in humans; the different types of teeth and their functions; and constructing and interpreting food chains.	We will be studying states of matter, comparing and grouping materials based on their properties developing our knowledge of solids, liquids and gases. This term we will investigate sound and how it travels through different materials. We will also be investigating the pitch of sounds and how to reduce sound levels.	In science, we will be looking at electricity, using insulators and conductors. We will study solids and liquids. We will continue to experiment our ideas, carrying out investigations to discover more about how science affects us in real life. We will be building on our investigative skills in our topic, 'Bubbles.'



Year 5	<p>We will be investigating living things and habitats in science this term. We will be finding out more about life cycles and the local environment. The famous scientist David Attenborough will be researched. Y5 will go on to explore mammals with a focus on humans, studying how they change over time.</p>	<p>In our next science topic will be earth and space. Children will explore the fascinating topic of the planets and consider the conditions on each planet. We will look into the sun, the stars and the moon and how these affects calendars and cycles. In our 'Materials' topic, we will be building on our knowledge of solids, liquids and gases through exploration of separating and dissolving.</p>	<p>We will continue to look at properties and changes of matter in science. We will carry out irreversible and reversible reactions, comparing physical and chemical changes. In the following science topic will study forces. This will include water resistance, air resistance, gravity and friction. We will investigate our senses through a range of practical activities.</p>
Year 6	<p>In science, children will focus their learning on the heart and the effects of the circulatory system on the body. Children will be learning about how the blood flows through the body as well as studying the positive effects of exercise on the circulatory system. In autumn two, we will be studying evolution and inheritance. We will be analysing fossils and how animals might have changed their existence to survive. We will be studying evolution and the history of the earth.</p>	<p>In Science, we will be studying how light travels and how objects can be seen. We will look at a model of the eye and explain the job of each part of the eye. Through investigation, we will find out the materials that are transparent or opaque and how these are useful. Spring two we will be studying Electricity. We will explore the voltage of a circuit, investigating additional components to a circuit and how these are used in our everyday lives.</p>	<p>In summer one, we will classifying organisms, exploring the differences between fungi, plants and microbes using our maths skills to record findings. In summer two, we will be studying dinosaurs discovering evidence to support theories about why dinosaurs became extinct.</p>