

St Sebastian's Primary School – Science Curriculum Overview

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	All about me	Back to nature	Once upon a time	Blast off	Food	At the seaside
Year 1	Seasonal change	Everyday materials	Animals including humans	Seasonal Change	Plants	Animals including humans
Year 2	Uses of everyday materials	Animals including humans	Animals including humans	Living things and their habitats		Plants
Year 3	Animals including humans	Light	Rocks and fossils	Forces and magnets		Plants
Year 4	Animals including humans	States of matter	Electricity	Sound	Living things and their habitats	
Year 5	Earth and Space	Properties and changes in materials		Forces		All living things and their habitats and animals including humans (RSE Puberty workshop in Sum 1)
Year 6	Animals including humans (Drugs also covered in Aut 1 PSHE unit)		Light	Electricity	All living things and their habitats	Evolution and inheritance (RSE Y6 unit Spr 1 & 2 – reproduction)

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	EYFS	Year 1	Year 2
Animals including humans	Age 3-4 - Know that they need to respect and care for the environment and all living things Reception - Know how to explore the natural world around them through the five senses - Know how to describe what they see, hear and feel whilst outside including plants and animals. - Know how to name and describe some animals in their local environment	- Know how to name and describe the structures of some animals from the animal groups: mammals, birds, fish, amphibians and reptiles. - Know the basic structure of the human body and its senses. - Know how to identify and name a variety of common animals that include carnivores, herbivores and omnivores	- Know that offspring grow into adults and what they need to survive - Know the importance for humans to exercise, eat well (basic food groups) and keep clean
Living things and habitats	Reception Know how to recognise some environments that are different to the one in which they live e.g. Antarctica		- Know the difference between living, dead and never alive - Know which plants and animals live in certain habitats and how they are suited to their environment, including micro habitats - Know how to describe simple food chains
Plants	Age 3-4 - Know how to plant seeds and care for growing plants Reception - Know how to name and describe some plants in their local environment	- Know how to identify and describe the basic structure of plants, including trees - Know how to identify and name a variety of common garden plants and trees, including deciduous and evergreen trees	Know how to observe and describe how seeds and bulbs grow into plants and what they need to grow and stay healthy
Seasons	Reception - Know some effects of changing seasons on the natural world around them. e.g. plant growth in summer and lack of food for birds in winter - Know how animals and plants behave differently as the seasons change	- Know how to observe changes in weather and day length across the four seasons - Know how to name the four seasons and describe other changes across the seasons	
Everyday materials	Age 3-4 - Know how to explore and talk about different forces they can feel - Know how to explore and talk about different materials Reception - Know how to observe and interact with natural processes such as ice melting, a sound causing vibration, light travelling through transparent material, an object casting a shadow, a magnet attracting an object and a boat floating on water	- Know how to identify, name and group a variety of everyday materials, describing simple properties - Know the difference between objects and materials	- Know how to identify and compare the suitability of different materials for particular uses - Know how the shapes of some solid objects can be changed by squashing, bending, twisting and stretching

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	Year 3	Year 4	Year 5	Year 6
Animals including humans	Know that animals require the right types of nutrition (food groups) and have skeletons and muscles for support, protection and movement	- Know and describe functions of basic parts of digestive system, including teeth - Know how to construct and interpret food chains	Know and describe the changes as humans develop into old age	Know how diet, exercise and drugs impact on the human body, including the circulatory system
Living things and habitats		- Know how to group living things using classification keys (animals and plants) - Know how changes in environment can impact living things (climate change).	Know how to compare the life cycles of different animal types, describing the process of reproduction in some plants and animals.	Know how to describe how living things (including micro-organisms and arthropods) are classified based on observable characteristics, similarities and differences – Linnaeus'
Plants	Know about plant life cycles and the functions of different plant parts			
Properties and changes of materials and states of matter		- Know how to compare and group materials based on their state of matter: solids, liquids and gases; observing how temperature changes some materials. - Know the parts that evaporation, condensation and precipitation play in the water cycle.	- Know how to compare and group materials based on their properties: solubility, conductivity, transparency, response to magnets. - Know how to demonstrate dissolving, separating mixtures and make a solution - Know how to explain reversible and irreversible changes	
Forces and Magnets	- Know how to compare how things move on different surfaces (friction) - Know that magnets attract/repel each other and attract some other materials.		Know and explore the effects of gravity, water, air resistance and friction.	
Electricity		- Know how to construct a simple series circuit, predicting whether a lamp will work or not and why. - Know and recognise conductors and insulators		- Know how to compare and give reasons for variation in how electrical components function. - Know how to draw simple circuit diagrams using symbols.
Light	Know that light is needed to see, how it creates shadows and that light from the Sun can be dangerous			- Know that light appears to travel in straight lines and how this allows us to see. - Know why shadows have the same shape as the object that cast them
Sound		- Know sounds are made by vibrations travelling to the ear through a medium. - Know how pitch and volume change with changes to the vibration source.		
Rocks	Know how to compare and group rocks, exploring how fossils are made and recognising what soils are made from			
Earth and Space			Know and describe the relationship between the Earth, Sun and Moon and know about the planets in our solar system	
Evolution and Inheritance				Know that living things change over time: adaptation, evolution, natural selection, fossils

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	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS	To follow					
Year 1	Enquiry Question: What happens to trees and the weather over a year?	Enquiry Question: What should Muggle-Wump build his house out of?	Enquiry Question: What are humans?	Enquiry Question: How is this season different to the last time we learnt about the seasons?	Enquiry Question: What are plants?	Enquiry Question: How could we describe one of the creatures from 'Where the Wild things are' using scientific vocabulary?
Year 2	Enquiry Question: What is a yacht made from and why?	Enquiry Question: What do we need to do to be healthy?	Enquiry Question: How do we know that animals grow?	Enquiry Question: How do living things survive?	Enquiry Question: Could a frog live in the ocean and a shark live in a large pond?	Enquiry Question: How can we grow the biggest plant?
Year 3	Enquiry Question: How do we move?	Enquiry Question: What is a shadow?	Enquiry Question: What is a rock?	Enquiry Question: Why do cars skid in winter?	Enquiry Question: In Toy Story 3, how do the toys escape the rubbish cutters at the tip?	Enquiry Question: How do plants reproduce?
Year 4	Enquiry Question: Why do we poo?	Enquiry Question: Why does my ice cream melt in summer?	Enquiry Question: Why does the television turn on when I press the button?	Enquiry Question: How does a stringed instrument change the sound it makes?	Enquiry Question: What are the differences between a fox, woodlouse, sunflower and mushroom?	Enquiry Question: Why are polar bears an endangered species?
Year 5	Enquiry Question: Why can't we always see the sun and the moon?	Enquiry Question: What do toast, boiled eggs and cake have in common?	Enquiry Question: How can you separate a mixture of rice, paperclips, water, sand and salt?	Enquiry Question: How is a space rocket able to launch into space?	Enquiry Question: How could a shipwreck be raised from the seabed?	Enquiry Question: Do all living things go through puberty?
Year 6	Enquiry Question: Why do we need blood?	Enquiry Question: How and why do we need to keep our heart healthy?	Enquiry Question: How can we see around corners?	Enquiry Question: Why do I have to use 2 AA batteries in my torch?	Enquiry Question: Why is it important to wash our hands?	Enquiry Question: Why does a giraffe have such a long neck?