Kilby St Mary's C of E (Aided) Primary School Science Curriculum Overview

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EYFS	Autumn		Spring		Summer		
EYFS	Seasonal Changes - Summer to Autumn - observing and investigating the changes in		observing and inve	Seasonal Changes - Winter to Spring - observing and investigating the		Seasonal Changes - Spring to Summer - observing and investigating	
	the weather, plants and animal life.		changes in the weather, plants and animal life.		the changes in the weather, plants and animal life.		
	My Body - Learning about our senses and how we use our body. What does my body need to be healthy? The effects of exercise on my body. Pets and Vets - Observing naming and describing familiar animals and their needs.		Plants - Investigation of plants in our everyday life: naming common plants; labelling parts; where is the best place to grow a plant; using cameras and magnifiers to explore features; planting seeds and caring for them.		Everyday materials - learn about the different properties of and uses for a variety of materials. Look at materials that are: magnetic and non-magnetic; waterproof and absorbent; flexible and rigid; heavy and light.		
	Healthy eating - Looking at a range of different fruit and vegetables. Investigate changes in state through cooking, e.g. soup making, baking.		Polar Regions - Why does blubber help polar animals? Investigating changes of state with ice experiments.				
Year	Cycle A		Cycle B				
	Autumn	Spring	Summer	Autumn	Spring	Summer	

Year 1 & 2	Identifying Plants	My Body	Seasonal Changes	Living in Habitats	Growth and	Super Scientists
	Find out what a plant is,	Identify, name and	Find out and	Identify things that	Survival	Investigate the
	identify and describe	label body parts,	describe the	are living, dead and	Find out about the	effect gravity has
	garden and wild plants and	explore what parts	different seasons,	have never been	offspring of a	on everyday
	trees, identify the	our bodies use for	how humans and	alive, understand	variety of	objects, what
	different parts and make	different	animals are	that living things	different animals	happens to light
	observations of growing	activities,	affected by the	need a habitat,	and how they	when it passes
	plants.	investigate the five	seasons, length of	explore plants and	reproduce, explore	through different
		senses, exploring	the day and what	animals that live in	how humans grow	objects, the wind,
	Identifying Animals	sight, sound, the	the weather is	seaside habitats,	as they get older,	whether sound can
	Identify, name and compare	sense of touch,	during each season.	explore plants and	look at a healthy	pass through
	common animals, UK	smell and taste		animals in unfamiliar	balanced diet and	materials, our
	mammals, birds, reptiles,			habitats, describe a	how exercise keeps	senses and
	fish and amphibians.	Everyday		micro habitat and	how bodies healthy.	reflexes, how
	Identify soft carnivores,	Materials		explore food chains.	Explore what	germs are
	herbivores and omnivores.	Identify a variety			animals and humans	transferred by
	Know how to take care of	of common		Growing Plants	need to survive and	touching things and
	animals.	materials, describe		Understand that	explore the	electrical circuits
		materials according		different seeds and	different	to make a light bulb
		to their properties,		bulbs grow into	environments as a	light up.
		describe why some		different plants,	factor of survival.	
		materials suit		explain why and how	Exploring Everyday	
		certain objects		seeds are dispersed,	Materials	
		better than others		plan, carry out and	Identify and sort a	
		and carry out an		investigate the	variety of	
		experiment to find		conditions that	materials,	
		out which materials		affect germination,	identifying what is	
		are waterproof.		observe and describe	natural and	
				how a plant changes	manmade and how	
				as it matures.	some materials can	
					change shape,	
					identify the	

					suitability of metal, plastic and wood for a variety of purposes, identify different materials that are used for the same product.	
Year 3 & 4	How Plants Grow Clarify and describe the	Rocks, Fossils and Soils	Forces and Magnets	Living in Environments	States of Matter Explore the	Circuits and Conductors
	parts of a plant and their functions in photosynthesis, including pollination, seed formation, structure and dispersal Health and Movement Understand that humans get the nutrition they need from what they eat, identifying that a balanced diet is needed, also looking at what different animals and pets eat. What function the skeleton has and what muscles are and how they help us and animals move.	Explore naturally occurring rocks and their uses, soil and how it is formed and fossils and how they are formed. Light and Shadow Recognise that light is needed in order to see. To explore the sun as a light source, shadows and why they are formed, and how they behave.	Explore what forces are and notice that some forces need contact between two objects and compare how things move on different surfaces. To explore how magnetic forces work, identifying magnetic materials and investigating uses of magnets.	Identify a variety of habitats and explore why organisms live in different habitats, group and classify organisms according to their characteristics, using a classification and explore the human impact on habitats and environments. Eating and Digestion Identify and classify carnivores, herbivores and omnivores, construct and interpret a variety of food chains. Identify the different types of	properties of solids, liquids and gases, and observe that materials change state when heated or cooled and research the temperatures in degrees Celsius. Explore the water cycle and the part evaporation and condensation play. Changing Sound Explore how sounds are made, how sounds can travel through different materials, pitch and volume and how some materials are	Identify common appliances that run on electricity and how to keep safe. To construct simple circuits, recognise common conductors and insulators and make a simple device which includes a circuit.

Year 5 & 6	Life Cycles Describe the process of sexual and asexual reproduction in plants, describe the process of sexual reproduction in animals and compare how different animals reproduce and grow, observe and compare the life cycles of animals in our local environment with other animals around the world and find out about naturalists.	Properties and Changes of Materials Know that some materials will dissolve in liquid to form a solution, decide how mixtures and solutions might be separated, explain that some changes form new materials and these changes are not usually reversible, identify	Forces in Action Explain the effects of gravity, identify the effects of friction acting on moving surfaces, identify and explain the effects of air resistance and water resistance, recognise that levers, pulleys and gears allow a smaller force to have greater effect.	functions in humans and investigate and describe the basic functions of the digestive system. Classifying Organisms Recap ways of grouping and classifying organisms according to their characteristics, explore ways of distinguishing between organisms that have similar characteristics, find out about the Carl Linnaeus and his classification system, explore what	preventing vibrations from sound sources reaching the ear. Evolution and Inheritance Recognise that living things produce offspring of the same kind. Identify how animals and plants are adapted to suit their environment and that adaption may lead to evolution, explore evolution and inheritance: Darwin, recognise	Changing Circuits Recap what electricity is, investigate static electricity, recap knowledge and understanding of circuits, use conventional symbols for circuits, investigate ways in which the brightness of a bulb or speed of a motor is changed, plan, carry out and
		are not usually	have greater	classification	inheritance:	motor is changed,

children at those stages, understand the initial changes inside and outside the body during puberty and how they differ for boys and girls and how the body changes during adulthood and old age.

and group everyday materials and give reasons for the particular uses of everyday materials in relation to their properties.

Earth and Space Describe the movements of the Sun. Earth and Moon, explore how the rotation creates day and night, learn about how the Farth's tilt creates seasons. the phases of the moon, discover how theories about the solar system have changed and investigate the planets in the solar system.

has contributed to our knowledge of a balanced diet, investigate the different food groups and find out why a variety of foods is important, find out how nutrients and water are transported in the human body, investigate what happens to the heart when we exercise. investigate how muscles move the skeleton and investigate the effects of tobacco. alcohol and drugs.

affect change in species over time.

Seeing Light
Recall facts about
how shadows are
formed and how we
can change
shadows,
understand how our
eyes allow us to
see, investigate
reflection, learn
about refraction
and investigate the
colours in white
light.