

St. Mary's Catholic Primary School Long-Term Map – Science – 2020-2021

	AUTUMN		SPRING		SUMMER	
	<i>Understanding the World</i>		<i>Understanding the World</i>		<i>Understanding the World</i>	
Reception	<p><u>Topic – Do you want to be Friends?</u></p> <p>Sound exploring with instruments</p>	<p><u>Topic – Why do squirrels hide their nuts?</u></p> <ul style="list-style-type: none"> -What do animals eat? -What happens to food when it's been left out for a long time? -Hibernation/ Seasons Autumn -Exploring the difference between our pets and other animals 	<p><u>Topic – Will you read me a story</u></p> <p>Exploring materials What would you make your house from?</p> <p>Planting Beanstalks</p>	<p><u>Topic – Why Are Carrots Orange?</u></p> <p>Healthy eating</p> <p>The benefits of exercise</p> <p>Origins of different food</p>	<p><u>Topic – Why do ladybirds have spots?</u></p> <ul style="list-style-type: none"> -Observing snails -Wiggly worms! -Magnification -Minibeast café -Exploring favourite foods of insects -Same or different? Sorting and grouping 	<p><u>Topic – What can you see in the Summer?</u></p> <p>What's the weather? /Seasons</p> <p>Staying safe in the sun</p> <p>Grow your own lawn</p> <p>Water</p> <p>Hedgerow investigators</p>
Science KS1						
Year 1	Animals including Humans		Seasonal Changes	Everyday Materials	Plants	
Science Investigations (Cornerstones Projects)	<p><u>What is camouflage for?</u></p> <ul style="list-style-type: none"> -Adaptation <u>What can worms sense?</u> -Senses <u>Can you leap like a frog?</u> -Adaptation / classification 	<p><u>What can our hands do?</u></p> <ul style="list-style-type: none"> -Senses <u>Can you be a superhero?</u> <u>-Materials and magnets</u> 	<p><u>How does it move?</u></p> <p>Forces / pushes</p> <p><u>How do you make bread?</u></p> <p>Solids, liquids , Gases(Changes)</p>	<p><u>What keeps us dry?</u></p> <p>Materials (waterproof)</p> <p><u>How does it feel?</u></p> <p>Materials (Properties of)</p>	<p><u>Are all leaves the same?</u></p> <p>Leaf Investigation</p> <p><u>How do leaves change?</u></p> <p>Seasonal Change / decompose</p> <p><u>Do pine cones know that it is raining?</u></p> <p>Seasonal Change (Weather)</p>	<p><u>Whose poo?</u></p> <p>Classification of animals</p> <p><u>Why do we have teeth?</u></p> <p><u>Adaptation</u></p>
Year 2	Living things and habitats		Materials	<u>Forces</u> (Super Scientists)	Plants	Animals including Humans
Science Investigations (Cornerstones Projects)	<p><u>How do plants grow in winter?</u></p> <ul style="list-style-type: none"> -Parts of a plant.(Bulbs store food) 	<p><u>Can water make music?</u></p> <ul style="list-style-type: none"> -Senses - Sound - pitch 	<p><u>Will it degrade?</u></p> <ul style="list-style-type: none"> -Materials - pollution- environment 	<p><u>Why do boats float?</u></p> <p>Floating and sinking - buoyancy - materials</p>	<p><u>How does grass grow?</u></p> <ul style="list-style-type: none"> -Best conditions for growing (water and light) <u>Can seeds grow anywhere?</u> -Conditions for growing (soil) <u>What's on your wellies?</u> -Seed dispersal 	<p><u>Can you make a paper bridge?</u></p> <ul style="list-style-type: none"> -materials <u>Where do worms like to live?</u> -Habitats



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	AUTUMN	SPRING			SUMMER	
<u>Science KS2</u>						
Year 3	Materials Rocks, Fossils and Soils	Animals including humans nutrition- Food Groups	Forces and Magnets Working Scientifically	Animals including humans- muscles and skeletons	Light and Shadow	How Plants Grow
Science Investigations (Cornerstones Projects)	Are all mushrooms deadly? What do owls eat?	What is sand? What is soil? How do fossils form?	Can you block magnetism? Why do magnets attract and repel? What does friction do?	What are our joints for? How do worms move?	Why do cat's eyes glow in the dark? Why do shadows change?	Do plants have legs? What are flowers for?
Year 4	States of Matter		Living things and their habitats	Electricity	Animals, including humans	Sound
Science Investigations (Cornerstones Projects)		Did the Romans use toilet roll? -Materials (absorbency)	How does pollution affect habitats? -Water Pollution/Plants	How did Vikings dye their clothes? -natural materials - plants	How does toothpaste protect teeth? Materials What is spit for? Chemical reactions in the body	How far can an arrow travel? -Forces (gravity, pulls) What are catapults for? -Forces
Year 5	Earth and Space	Forces	Living things and their habitats		Properties and changes of materials	Animals, including humans
Science Investigations (Cornerstones Projects)	How does the Moon move? -Earth and Space	How do pulleys work? -Forces	Topic: Sow Grow and Farm Food chains and webs; Life cycles;	How Many Potatoes Can You Grow? Plant reproduction; Growing plants; Modern farming	(Why does milk go off?)	
Year 6	Animal including humans	Light	Evolution and inheritance		Electricity	Living things and their habitats
Science Investigations (Cornerstones Projects)	How does blood flow? What can your heart rate tell you? What is in the blood?	How does light travel? Can you see through it? Can you turn a light down?	Why do birds have different beaks? How have eyes evolved? How many worms are underground? Why is holly prickly? Where do wild plants grow?		Can a fruit light a bulb?	How does inheritance work? Why are things classified?