

**St Wilfrid's Catholic Primary School - Science Progression Map EYFS to Year 6**

Year	Plants	Animals, including humans	Living things and their habitats	Seasonal changes	Materials/states of matter	Space	Forces	Rocks	Light	Sound	Electricity
EYFS	<p>Know that plants need soil and water to grow.</p> <p>Know that seeds grow into vegetables.</p>	<p>Know the names for animals in their environment.</p> <p>Know that eggs need warmth to survive.</p>	<p>Know that chickens hatch from an egg.</p> <p>Know and name the life cycle of a caterpillar.</p>	<p>Begin to know about the different seasons.</p> <p>Know significant observable changes in the seasons.</p>	<p>Know that some objects float and some objects sink.</p> <p>Select objects for a task based on their appearance.</p>	<p>Know that it is different on Earth to in Space.</p> <p>Begin to understand that objects float in Space.</p>	<p>Know that push and pull are forces.</p>	<p>Notice that rocks in our environment look and feel different.+</p>	<p>Know that the day is light and the night is dark.</p>	<p>Know that objects make different sounds.</p> <p>Describe how loud or quiet a sound is.</p>	<p>Name some objects that use electricity.</p> <p>Observe and explore how a circuit is made.</p>
Year 1	<p>Name the petals, stem, leaves and root of a plant.</p> <p>Know and name the roots, trunk, branches and leaves of a tree.</p> <p>Name some common wild and garden plants.</p>	<p>Know how to classify animals by amphibian, reptile, mammal, fish and birds.</p> <p>Classify animals by what they eat.</p> <p>Name the parts of the body that can be seen.</p>	<p>Know how to sort living and non-living things.</p>	<p>Name the seasons of the year.</p> <p>Know about the type of weather in each season.</p>	<p>Name the material that an object is made from.</p> <p>Know and describe materials based on their properties.</p>						
Year 2	<p>Know and explain how seeds and bulbs grow into plants.</p> <p>Know that plants need water, light and warmth to grow and stay healthy.</p>	<p>Know why exercise, a balanced diet and good hygiene are important for humans.</p>	<p>Know the basic stages in a life cycle for animals.</p> <p>Classify by living, dead and never-lived.</p> <p>Know how habitats provide living things with basic needs.</p> <p>Name some animal food sources.</p> <p>Know about and explain a simple food chain.</p>		<p>Know how materials can be changed by squashing, bending, twisting and stretching.</p> <p>Explain why a material might/might not be used for a specific job.</p>						
Year 3	<p>Know the functions of the flowering plant.</p>	<p>Know about the importance of a</p>			<p>Compare and group rocks based on their</p>	<p>Know that dark is the absence of light.</p>	<p>Know about and describe how friction affects</p>	<p>Compare and group rocks based on their</p>	<p>Know that dark is the absence of light.</p>		

	<p>Know how water is transported within plants.</p> <p>Know that plants need water, light, warmth, nutrients and room to grow.</p> <p>Know how seeds are spread in order to germinate.</p>	<p>nutritious, balanced diet.</p> <p>Know how nutrients, water and oxygen are transported within animals.</p> <p>Know about the skeletal and muscular system of a human.</p>			<p>appearance and physical properties.</p>		<p>how objects move on different surfaces.</p> <p>Know how a simple pulley works and use one to lift an object.</p> <p>Know about and give examples of contact and non-contact forces.</p> <p>Know about how magnets attract and repel.</p>	<p>appearance and physical properties.</p> <p>Know how soil is made.</p> <p>Know how fossils are formed.</p> <p>Know and explain the difference between sedimentary, metamorphic and igneous rocks.</p>	<p>Know that light is needed in order to see and is reflected.</p> <p>Know and demonstrate how a shadow is formed and changes shape.</p> <p>Know about the danger of direct sunlight and describe how to keep protected.</p>		
Year 4		<p>Name and describe the functions of parts of the digestive system.</p> <p>Know and describe the functions of the types of human teeth.</p>	<p>Know how to use a classification key to group, identify and name living things.</p> <p>Know how changes to an environment could endanger living things.</p> <p>Use food chains to identify producers, predators and prey.</p>		<p>Know about and explore how some materials can change state.</p> <p>Know the temperature at which materials change state.</p> <p>Know the part played by evaporation and condensation in the water cycle.</p>					<p>Know how sound is made through vibrations.</p> <p>Know how sound travels from a source to our ears.</p> <p>Know the correlation between pitch and the object producing the sound.</p> <p>Know that sounds get quieter as they travel away from a source.</p>	<p>Name appliances that require electricity to function.</p> <p>Construct a series circuit and name its components.</p> <p>Predict and test whether a lamp will light within a circuit.</p> <p>Know the function of a switch.</p> <p>Know and give examples of conductors and insulators.</p>
Year 5	<p>Know the process of reproduction in plants</p>	<p>Know the stages of growth in humans.</p>	<p>Know and explain the difference between the life cycles of different living things.</p> <p>Know the process of reproduction in animals.</p>		<p>Group materials based on their properties and response to magnets.</p> <p>Know and explain how some materials dissolve to form a solution and</p>	<p>Know about and explain the movement of the Earth and other planets relative to the sun.</p> <p>Know about and explain the movement of</p>	<p>Know what gravity is and its impact on our lives.</p> <p>Know and explain the effects of friction, air and water resistance.</p>				

					<p>how to recover it.</p> <p>Know how some materials can be separated.</p> <p>Know the difference between reversible/irreversible changes.</p>	<p>the Moon relative to the Earth.</p> <p>Know and explain how night and day are created.</p>	<p>Explain how levers, pulleys and gears allow a smaller force to have a greater effect.</p>			
Year 6		<p>Know the main parts of the human circulatory system.</p> <p>Know the function of the heart, blood vessel and blood.</p> <p>Know the impact of diet, exercise, drugs and lifestyle on health.</p> <p>Know the ways in which nutrients are transported in animals, including humans.</p>	<p>Classify living things into broad groups according to observable characteristic and based on similarities and differences.</p> <p>Know and give reasons for how living things have been classified.</p> <p>Know about reproduction and offspring, recognising that offspring vary and are not identical to their parents).</p> <p>Link adaptation over time to evolution and explain what this is.</p>						<p>Know how light travels.</p> <p>Know and demonstrate how we see objects.</p> <p>Know why shadows have the same shape as the object that casts them.</p> <p>Know how simple optical instruments work.</p>	<p>Give reasons for why components would/wouldn't work in a circuit.</p> <p>Draw circuit diagrams using the correct symbols.</p> <p>Know how the number and voltage of cells in a circuit links to brightness of a lamp/volume of a buzzer.</p>