



## Science Progression Map



	Nursery	Reception	Year 1	Year 2	Year 3	Year 4
Working Scientifically	<ul style="list-style-type: none"><li>I can recognise that my actions have an effect on the world around me.</li><li>I can make choices and explore the resources in my environment.</li></ul>	<ul style="list-style-type: none"><li>I can independently choose natural materials to explore in different ways</li><li>I can talk about what I can see, using familiar and new vocabulary</li><li>I can use my senses when exploring new materials</li></ul>	<ul style="list-style-type: none"><li>I can ask simple questions when prompted.</li><li>I can make relevant observations using simple equipment.</li><li>I can conduct simple tests with some support.</li><li>I can identify and classify.</li><li>I can gather and record data.</li><li>I can recognise and discuss my findings.</li><li>I can answer simple questions using my findings and scientific vocabulary.</li></ul>	<ul style="list-style-type: none"><li>I can ask simple questions.</li><li>I can begin to predict.</li><li>I can recognise that questions can be answered in different ways.</li><li>I can perform simple tests.</li><li>I can observe using different equipment.</li><li>I can identify and classify.</li><li>I can gather and record data to help answer questions.</li><li>I can communicate what I have found using simple scientific language.</li><li>I can use my observations and ideas to suggest answers to questions.</li></ul>	<ul style="list-style-type: none"><li>I can ask relevant questions when prompted.</li><li>I can use different types of scientific enquiry to answer questions.</li><li>I can set up simple and practical enquiries, comparative and fair tests with some support.</li><li>I can make systematic and careful observations using simple equipment.</li><li>I can use standard units when taking measurements.</li><li>I can gather, record, classify and present data in a variety of ways with some support.</li><li>I can display my findings in different ways.</li><li>I can suggest answers using my results.</li><li>I can build a conclusion to help answer a scientific question.</li></ul>	<ul style="list-style-type: none"><li>I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.</li><li>I can report my findings using oral and written explanations, present results and conclusions.</li><li>I can identify differences, similarities or changes related to simple scientific ideas.</li><li>I can use results to draw simple conclusions, make predictions, suggest improvements and raise further questions.</li><li>I can use scientific language to answer the key question. I can ask relevant questions.</li><li>I can make predictions using previous experiences.</li><li>I can use different types of scientific enquires to answer questions.</li></ul>



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						<ul style="list-style-type: none"> <li>• I can set up simple practical enquires and fair tests.</li> <li>• I can make systematic and careful observations and where take accurate measurements.</li> <li>• I can gather, record, classify and present data in a variety of ways to help answer questions.</li> </ul>
Plants	<ul style="list-style-type: none"> <li>• I can plant seeds.</li> <li>• I can care for the seeds that I plant as they grow.</li> </ul>	<ul style="list-style-type: none"> <li>• I can observe plants and talk about the changes I see</li> <li>• I can draw observational pictures of plants at different stages of growth</li> </ul>	<ul style="list-style-type: none"> <li>• I can name a variety of common wild and garden plants.</li> <li>• I can name the petals, stem, leaf and root of a plant.</li> <li>• I can name the roots, trunk, branches and leaves of a tree</li> </ul>	<ul style="list-style-type: none"> <li>• I can describe how seeds and bulbs grow into plants.</li> <li>• I can describe what plants need in order to grow and stay healthy (water, light &amp; suitable temperature)</li> </ul>	<ul style="list-style-type: none"> <li>• I can describe the function of different parts of flowering plants and trees.</li> <li>• I can explore and describe the needs of different plants for survival.</li> <li>• I can explore and describe how water is transported within plants.</li> <li>• I can describe the plant life cycle, especially the importance of flowers.</li> </ul>	
Animals, including Humans	<ul style="list-style-type: none"> <li>• I can observe and begin understand the changes in a life cycle.</li> <li>• I can use my senses.</li> <li>• I can name some minibeasts.</li> </ul>	<ul style="list-style-type: none"> <li>• I can talk about and identify the key changes in lifecycles</li> <li>• I can match baby animals to adult animals using pictures</li> <li>• I can name a variety of minibeasts</li> </ul>	<ul style="list-style-type: none"> <li>• I can name a variety of animals including fish, amphibians, reptiles' birds and mammals.</li> <li>• I can classify and name animals by what they eat (carnivore, herbivore and omnivore).</li> </ul>	<ul style="list-style-type: none"> <li>• I can explain the basic stages in a life cycle for animals, including humans.</li> <li>• I can describe what animals and humans need to survive.</li> <li>• I can describe why exercise, a balanced diet and good</li> </ul>	<ul style="list-style-type: none"> <li>• I can explain the importance of a nutritious, balanced diet.</li> <li>• I can explain how nutrients, water and oxygen are transported within animals and humans.</li> </ul>	<ul style="list-style-type: none"> <li>• I can identify and name the parts of the human digestive system.</li> <li>• I can describe the functions of the organs in the human digestive system.</li> <li>• I can identify and describe the</li> </ul>



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		<ul style="list-style-type: none"> <li>I can explore where minibeasts live</li> <li>I can draw pictures of minibeasts/animals I find/see in my immediate environment</li> </ul>	<ul style="list-style-type: none"> <li>I can sort animals into categories (including fish, amphibians, reptiles, birds and mammals).</li> <li>I can sort living and non-living things.</li> <li>I can name the parts of the human body that I can see.</li> <li>I can link the correct part of the human body to each sense.</li> <li>I can name a variety of minibeasts and identify their differing features.</li> </ul>	<p>hygiene are important for humans.</p> <ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>I can describe and explain the skeletal system of a human.</li> <li>I can describe and explain the muscular system of a human.</li> <li>I can describe the purpose of the skeleton in humans and animals.</li> <li>I can look in depth at a microhabitat and the importance of them.</li> <li>I can group minibeasts (arthropods, molluscs and annelids).</li> </ul>	<p>different types of teeth in humans.</p> <ul style="list-style-type: none"> <li>I can describe the functions of different human teeth.</li> <li>I can use food chains to identify producers, predators and prey.</li> <li>I can construct food chains to identify producers, predators and prey.</li> <li></li> </ul>
<p>All Living things and their Habitats</p>	<ul style="list-style-type: none"> <li>I can name some living things.</li> <li>I can begin to show respect for all living things</li> </ul>	<ul style="list-style-type: none"> <li>I can name living things.</li> <li>I can care for living things I find in my immediate environment</li> </ul>		<ul style="list-style-type: none"> <li>I can identify things that are living, dead and never lived.</li> <li>I can describe how a specific habitat provides for the basic needs of things living there (plants and animals).</li> <li>I can identify and name plants and animals in a range of habitats.</li> <li>I can match living things to their habitat.</li> <li>I can describe how animals find their food.</li> <li>I can name some different sources of food for animals.</li> </ul>		<ul style="list-style-type: none"> <li>I can group living things in different ways.</li> <li>I can use classification keys to group, identify and name living things.</li> <li>I can create classification keys to group, identify and name living things (for others to use).</li> <li>I can describe how changes to an environment could endanger living things.</li> <li>I can say why minibeasts are important and discuss how they are</li> </ul>



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				<ul style="list-style-type: none"> <li>I can explain a simple food chain.</li> <li>I can group minibeasts (insects, arachnids, other).</li> </ul>		integral to our ecosystem.
Materials	<ul style="list-style-type: none"> <li>I can choose materials for a given purpose.</li> <li>I can choose materials from the environment and build purposely for myself.</li> </ul>	<ul style="list-style-type: none"> <li>I can choose materials for different purposes</li> <li>I can observe and discuss the changes in liquids and solids e.g. ice melting</li> </ul>	<ul style="list-style-type: none"> <li>I can distinguish between an object and the material it is made from.</li> <li>I can explain the materials that an object is made from.</li> <li>I can name wood, plastic, glass, metal, water and rock.</li> <li>I can describe the properties of everyday materials.</li> <li>I can group objects based on the materials they are made from.</li> </ul>	<ul style="list-style-type: none"> <li>I can identify and name a range of materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard.</li> <li>I can suggest why a material might or might not be used for a specific job.</li> <li>I can explore how shapes can be changed by squashing, bending, twisting and stretching.</li> </ul>		<ul style="list-style-type: none"> <li>I can group materials based on their state of matter (solid, liquid, gas).</li> <li>I can describe how some materials can change state.</li> <li>I can explore how materials change state.</li> <li>I can measure the temperature at which materials change state.</li> <li>I can describe the water cycle.</li> <li>I can explain the part played by evaporation and condensation in the water cycle</li> </ul>
Seasonal Changes	<ul style="list-style-type: none"> <li>I can talk about the weather.</li> <li>I can talk about the weather changing.</li> </ul>	<ul style="list-style-type: none"> <li>I can talk about changes I see during seasonal and local walks</li> <li>I can name some seasons and talk about observations I have made</li> <li>I can select the most appropriate weather for our class calendar each day</li> </ul>	<ul style="list-style-type: none"> <li>I can observe and comment on changes in the seasons.</li> <li>I can name the seasons and suggest the type of weather in each season.</li> </ul>			



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Rocks					<ul style="list-style-type: none"><li>• I can compare and group rocks based on their appearance and physical properties, giving a reason.</li><li>• I can describe how fossils are formed.</li><li>• I can describe how soil is made.</li><li>• I can describe and explain the difference between sedimentary and igneous rock.</li></ul>	
Light		<ul style="list-style-type: none"><li>• I can investigate light using a light box.</li><li>• I can investigate what objects you can see through and which you can't.</li></ul>			<ul style="list-style-type: none"><li>• I can describe what dark is (the absence of light).</li><li>• I can explain that light is needed in order to see.</li><li>• I can explain that light is reflected from a surface.</li><li>• I can explain and demonstrate how a shadow is formed.</li><li>• I can explore shadow size and explain.</li><li>• I can explain the danger of direct sunlight and describe how to keep protected</li></ul>	
Forces and Magnets	<ul style="list-style-type: none"><li>• I can explore and investigate magnets within the classroom.</li></ul>	<ul style="list-style-type: none"><li>• I can investigate how objects move on different surfaces e.g. using cars on ramps</li></ul>			<ul style="list-style-type: none"><li>• I can explore and describe how objects move on different surfaces.</li><li>• I can explain how some forces require</li></ul>	



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					<p>contact and some do not, giving examples.</p> <ul style="list-style-type: none"><li>• I can explore and explain how objects attract and repel in relation to objects and other magnets.</li><li>• I can predict whether objects will be magnetic and carry out an enquiry to test this out.</li><li>• I can describe how magnets work.</li><li>• I can predict whether magnets will attract or repel and give a reason.</li></ul>	
Sound					<ul style="list-style-type: none"><li>• I can describe how sound is made.</li><li>• I can explain how sound travels from a source to our ears.</li><li>• I can explain the place of vibration in hearing.</li><li>• I can explore the correlation between pitch and the object producing a sound.</li><li>• I can explore the correlation between the volume of a sound and the strength of the vibrations that produced it.</li><li>• I can describe what happens to a sound as it travels away from its source.</li></ul>	



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Electricity						<ul style="list-style-type: none"><li>• I can identify and name appliances that require electricity to function.</li><li>• I can construct a series circuit.</li><li>• I can identify and name the components in a series circuit</li><li>• I can draw a circuit diagram.</li><li>• I can predict and test whether a lamp will light within a circuit.</li></ul>
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