



Science Progression

EYFS

Physical Development

ELG 5 – Health and self-care

Know the importance for good health of physical exercise and a healthy diet.

Talk about ways to keep healthy and safe.

Manage their own basic hygiene and personal needs successfully, including dressing and going to the toilet independently.

Understanding the World

ELG 14 - The World

Know about similarities and differences in relation to places, objects, materials and living things.

Talk about the features of their own immediate environment and how environments might vary from one another.

Make observations of animals and plants and explain why some things occur, and talk about changes.

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working scientifically	<p>Ask simple questions and recognise that they can be answered in different ways</p> <p>Use simple equipment to observe closely</p> <p>Perform simple tests</p> <p>Identify and classify</p> <p>Use his/her observations and ideas to suggest answers to questions</p> <p>Gather and record data to help in answering questions</p>	<p>Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum</p> <p>Use simple equipment to observe closely including changes over time</p> <p>Communicate his/her ideas, what he/she does and what he/she finds out in a variety of ways</p>	<p>Ask relevant questions and use different types of scientific enquiries to answer them (Year 3 focus)</p> <p>Set up simple practical enquiries, comparative and fair tests (Year 3 focus)</p> <p>Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment,</p>	<p>Ask relevant questions and use different types of scientific enquiries to answer them (Year 4 focus)</p> <p>Set up simple practical enquiries, comparative and fair tests (Year 4 focus)</p> <p>Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers</p>	<p>Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p>	<p>Working scientifically concepts from previous year groups continue.</p> <p>Describe and evaluate their own and other people's scientific ideas related to topics in the national curriculum (including ideas that have changed over time), using evidence from a range of sources</p> <p>Group and classify things and recognise patterns</p> <p>Find things out using a wide range of secondary sources of information</p>

		<p>Perform simple comparative tests</p> <p>Identify, group and classify</p> <p>Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns</p> <p>Gather and record data to help in answering questions including from secondary sources of information</p>	<p>including thermometers and data loggers (Year 3 focus)</p> <p>Gather, record, classify and present data in a variety of ways to help in answering questions (Year 3 focus)</p> <p>Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables (Year 3 focus)</p> <p>Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (Year 3 focus)</p> <p>Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (Year 3 focus)</p> <p>Identify differences, similarities or changes related to simple scientific ideas and</p>	<p>and data loggers (Year 4 focus)</p> <p>Gather, record, classify and present data in a variety of ways to help in answering questions (Year 4 focus)</p> <p>Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables (Year 4 focus)</p> <p>Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (Year 4 focus)</p> <p>Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (Year 4 focus)</p> <p>Identify differences, similarities or changes related to simple scientific ideas and processes (Year 4 focus)</p>	<p>Use test results to make predictions to set up further comparative and fair tests</p> <p>Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>Identify scientific evidence that has been used to support or refute ideas or arguments</p>	<p>Use appropriate scientific language and ideas from the national curriculum to explain, evaluate and communicate his/her methods and findings</p>
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Biology						
Understand animals and humans	<p>Name and label different parts of the body - specifically those associated with the senses.</p> <p>Use the senses to explore the world and recognise which parts of my body allow me to do this.</p> <p>Identify groups of animals: amphibians, mammals, fish, birds, reptiles and invertebrates.</p> <p>Group carnivores, herbivores and omnivores.</p>	<p>Describe the basic needs of animals and humans.</p> <p>Understand how animals change as they grow.</p> <p>Understand why humans need to exercise and have an understanding of how to improve diet.</p>		<p>Identify the digestive system and its parts.</p> <p>Construct food chains and relate them to herbivores, carnivores and omnivores.</p> <p>Identify why teeth should be kept healthy.</p> <p>Identify parts of the human skeleton.</p>	<p>Understand sexual and asexual reproduction.</p>	<p>Understand and explain the functions of the heart, lungs and circulatory system.</p> <p>Test and record ideas about healthy diet and exercise.</p> <p>Ensure that investigations identify variables and suitable predictions and conclusions are drawn from presented data.</p>
Investigate living things		<p>Identify living things and their life processes.</p> <p>Understand habitats and identify the plants and animals within those habitats.</p> <p>Draw a simple food chain and understand</p>			<p>Understand life cycles of different animals: Insects, amphibians (metamorphosis), marsupials and monotremes, and birds.</p>	

		how the relationships between living things.				
Understand plants		Understand plants and their lifecycles. Understand the roles of different parts of a flowering plant.			Understand how flowers are pollinated.	
Understand evolution and inheritance						Understand the development of evolutionary ideas. Understand human evolution and where the evidence comes from to support this. Understand inherited traits, adaptation and artificial and natural selection. Understand genes and DNA.
Chemistry						
Investigate materials	Identify and name different materials and their properties. Test different materials and observe changes. Test materials and draw conclusions about how they could be used. Understand recycling.		Understand and compare the different uses of rocks. Know the terms igneous, sedimentary and metamorphic. Understand how soil is formed and know different types of soil. Understand the process of fossilisation.		Identify solids, liquids and gases and identify how materials change from one state to another. Identify the different stages of the water cycle. Describe and test the properties of materials, including solubility and conductivity.	

					Understand reversible and irreversible changes. Understand how to separate mixtures.	
Physics						
Understand movement, forces and magnets			<p>Identify forces as push and pulls.</p> <p>Understand gravity.</p> <p>Understand the difference between weight and mass.</p> <p>Identify friction as a force and to identify air resistance and water resistance as related forces.</p> <p>Identify simple mechanisms and explain them.</p> <p>Understand magnets.</p>			
Understand light and seeing			<p>Understand that light is required to see.</p> <p>Understand how light is reflected.</p> <p>Know that light can be dangerous.</p> <p>Understand how shadows are formed.</p>			<p>Understand how light allows us to see.</p> <p>Understand refraction and colours within light.</p> <p>Investigate shadows.</p>

<p>Investigate sound and hearing</p>				<p>Identify the properties of sound and how we are able to hear.</p> <p>Set up enquiries regarding sound and record findings in a variety of scientific ways.</p> <p>Understand how sound can be prevented from traveling.</p>		
<p>Understand electrical circuits</p>				<p>Understand mains and battery power and identify common electrical appliances. To create and draw simple series circuits.</p> <p>Investigate changes that can be made to circuits using different components.</p> <p>Understand conductors and insulators.</p>		
<p>Understand the Earth's movement in space</p>	<p>Understand how seasons affect changes in the weather.</p> <p>Understand how animals and humans adapt to seasonal changes.</p> <p>Understand how changes in the seasons affect plants.</p>				<p>Describe the shape of the Sun, the Moon and the Earth.</p> <p>Name the planets in our solar system in the correct order.</p> <p>Understand ideas of planetary movement.</p> <p>Explain day and night and the different seasons.</p>	

