



Progression of Skills - Science

Working Scientifically		Foundation Stage	Year 1/2	Year 3/4	Year 5/6
	Asking Questions	40-60m •Looks closely at similarities, differences, patterns and change. Early Learning Goals: They talk about the features of their own immediate environment and how environments might vary from one another.	Pupils should be taught to: -Ask simple questions and recognise that they can be answered in different ways	Pupils should be taught to: -Ask relevant questions and use different types of scientific enquiries to answer them -Set up simple practical enquiries, comparative and fair tests	Pupils should be taught to: -Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
	Topic	Nature Detectives (Autumn) Living Eggs/Pets (Spring)	People (Year A Aut 1) Barnaby Bear Around the World (Year A Spr 1) Boats and Materials (Year A Spr 2) Growing and Changing (Year A Sum 1) Our Local Area (Year A Sum 2) Animal Homes (Year B Aut 1) Homes (Year B Aut 2) Transport (Year B Spr 1) The Great Fire of London (Year B Spr 2) Food and Farming (Year B Sum 1) The Seaside (Year B Sum 2)	Rivers and Coasts (Year A Aut 1) Victorians (Year A Aut 2) India (Year A Spr 1) Growing and Changing (Year A Spr 2) Anglo Saxons (Year A Sum 1) Vikings (Year A Sum 2) Exploring where we Live (Year B Aut 1) Water (Year B Aut 2) Healthy Eating (Year B Spr 1) Transport (Year B Spr 2) Greece (Year B Aut 1) Greece (Year B Aut 2)	China (Year A Aut 1) Europe (Year A Aut 2) Crime and Punishment (Year A Spr 1) The Islamic Empire (Year A Spr 2) Africa (Year A Sum 1) Romans (Year A Sum 2) North and South America (Year B Aut 1) Egyptians (Year B Spr 1) WW2 (Year B Spr 2) Volcanoes (Year B Sum 1)
	Measuring and Recording	40-60m •Looks closely at similarities, differences, patterns and change. Early Learning Goal: Children know about similarities and differences in relation to places, objects, materials and living things	Pupils should be taught to: -Observe closely, using simple equipment -Perform simple tests -Gather and record data to help in answering questions	Pupils should be taught to: -Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers -Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables -Gather, record, classify and present data in a variety of ways to help in answering questions	Pupils should be taught to: -Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate -Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
Topic	Investigating light and shadows (Autumn) Growing and Changing (Autumn) Nature Detectives (Autumn) Space (Spring) Recycling (Spring) Living Eggs/Pets (Spring) Healthy Eating (Summer)	Seasons (Year A Aut 2) People (Year A Aut 1) Boats and Materials (Year A Spr 2) Growing and Changing (Year A Sum 1) Our Local Area (Year A Sum 2) Homes (Year B Aut 2) Transport (Year B Spr 1) The Great Fire of London (Year B Spr 2) Food and Farming (Year B Sum 1) The Seaside (Year B Sum 2)	Rivers and Coasts (Year A Aut 1) Victorians (Year A Aut 2) India (Year A Spr 1) Growing and Changing (Year A Spr 2) Anglo Saxons (Year A Sum 1) Vikings (Year A Sum 2) Exploring where we Live (Year B Aut 1) Water (Year B Aut 2) Healthy Eating (Year B Spr 1) Transport (Year B Spr 2) Greece (Year B Aut 1) Greece (Year B Aut 2)	China (Year A Aut 1) Europe (Year A Aut 2) Africa (Year A Sum 1) Romans (Year A Sum 2) North and South America (Year B Aut 1) Egyptians (Year B Spr 1) WW2 (Year B Spr 2) Volcanoes (Year B Sum 1)	



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Concluding	<p>40-60m •Looks closely at similarities, differences, patterns and change.</p> <p>Early Learning Goal; They make observations of animals and plants and explain why some things occur, and talk about changes.</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> -Identify and classify -Use their observations and ideas to suggest answers to questions 	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> -Identify differences, similarities or changes related to simple scientific ideas and processes -Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions -Use straightforward scientific evidence to answer questions or to support their findings 	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> -Identify scientific evidence that has been used to support or refute ideas or arguments -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
Topic	<p>Growing and Changing (Autumn) Nature Detectives (Autumn) Living Eggs/Pets (Spring) Life cycle of a caterpillar (Summer) Planting Beans (Summer)</p>	<p>Seasons (Year A Aut 2) Barnaby Bear Around the World (Year A Spr 1) Boats and Materials (Year A Spr 2) Growing and Changing (Year A Sum 1) Our Local Area (Year A Sum 2) Animal Homes (Year B Aut 1) Homes (Year B Aut 2) Transport (Year B Spr 1) Food and Farming (Year B Sum 1) The Seaside (Year B Sum 2)</p>	<p>Rivers and Coasts (Year A Aut 1) Victorians (Year A Aut 2) India (Year A Spr 1) Growing and Changing (Year A Spr 2) Anglo Saxons (Year A Sum 1) Vikings (Year A Sum 2) Water (Year B Aut 2) Healthy Eating (Year B Spr 1) Transport (Year B Spr 2) Greece (Year B Aut 1) Greece (Year B Aut 2)</p>	<p>China (Year A Aut 1) Europe (Year A Aut 2) Crime and Punishment (Year A Spr 1) Africa (Year A Sum 1) Romans (Year A Sum 2) North and South America (Year B Aut 1) Stone Age (Year B Aut 2) Egyptians (Year B Spr 1) WW2 (Year B Spr 2) Volcanoes (Year B Sum 1) Enough for Everyone and Peace (Year B Sum 2)</p>
Evaluating			<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> -Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> -Use test results to make predictions to set up further comparative and fair tests
Topic			<p>Rivers and Coasts (Year A Aut 1) Victorians (Year A Aut 2) India (Year A Spr 1) Growing and Changing (Year A Spr 2) Anglo Saxons (Year A Sum 1) Vikings (Year A Sum 2) Exploring where we Live (Year B Aut 1) Water (Year B Aut 2) Healthy Eating (Year B Spr 1) Transport (Year B Spr 2) Greece (Year B Aut 1) Greece (Year B Aut 2)</p>	<p>China (Year A Aut 1) Europe (Year A Aut 2) Africa (Year A Sum 1) Romans (Year A Sum 2) North and South America (Year B Aut 1) Egyptians (Year B Spr 1) WW2 (Year B Spr 2) Volcanoes (Year B Sum 1)</p>