



As scientists, our children will experience a sense of awe and wonder of their environment and the natural and physical phenomena of the world they live in. They will understand how scientific advancements and the work of scientists continue to shape human achievement. They will learn scientific enquiry skills that will enable them to predict, investigate and evaluate evidence and draw conclusions. Pupils should be encouraged to recognise the power of rational explanation that enables them to ask and answer questions.

Skills

	Research	Observing (Over time)	Testing	Identifying & Classifying	Problem Solving
Year 1	<ul style="list-style-type: none"> Asking simple questions and recognising that they can be answered in different ways 	<ul style="list-style-type: none"> Observing closely, using simple equipment Performing simple tests 	<ul style="list-style-type: none"> Gather and record data to help them to answer questions 	<ul style="list-style-type: none"> Identify and classify small groups of objects/animals 	<ul style="list-style-type: none"> Use their observations and ideas to suggest answers to questions
Year 2	<ul style="list-style-type: none"> Asking simple questions and recognising that they can be answered in different ways 	<ul style="list-style-type: none"> Observing closely, using simple equipment Performing simple tests 	<ul style="list-style-type: none"> Gather and record data to help them to answer questions 	<ul style="list-style-type: none"> Identify and classify small groups of objects/animals 	<ul style="list-style-type: none"> Use their observations and ideas to suggest answers to questions
Year 3/4	<ul style="list-style-type: none"> Ask relevant questions and use different types of scientific enquiries to answer them 	<ul style="list-style-type: none"> Make systematic and careful observations When appropriate, take accurate measurements using standard units Use a range of equipment including data loggers and thermometers 	<ul style="list-style-type: none"> Set up simple practical enquiries, comparative and fair tests Record findings using scientific language, drawings, labelled diagrams, keys, bar charts and tables 	<ul style="list-style-type: none"> Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Identify differences, similarities or changes related to simple scientific ideas and processes 	<ul style="list-style-type: none"> Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusion Use straightforward scientific evidence to answer questions or to support their findings



Year 5/6	<ul style="list-style-type: none"> Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 	<ul style="list-style-type: none"> Take measurements with increasing accuracy and precision Take repeat readings where appropriate Use a range of scientific equipment with accuracy and precision 	<ul style="list-style-type: none"> Use test results to make conclusions to set up further comparative and fair tests Record results of tests using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. 	<ul style="list-style-type: none"> Use a range of classification keys and tables, increasing in complexity 	<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, casual relationships and explanations of results Report findings orally and in written forms such as displays and presentations

Dunsford

Year	Autumn	Spring		Summer	
Y1 A	Animals including Humans Year 1	Seasonal Change Year 1 and Everyday Materials Year 1		Plants Year 1	
Y1 B	Seasonal Change Year 1 and Everyday Materials Year 1Year 1	Animals including Humans Year 1		Plants Year 1	
2/3/4 Year A	Plants Year 2/Plants Year 3	Animals including Humans Year 2/3/4		Everyday Materials Year 2/ Rocks Year 3	States of Matter Year 4
2/3/4 Year B	Living Things and their habitats Year 2/4	Light Year 3	Sound Year 4	Forces and Magnets Year 3	Electricity Year 4



Dunsford Community Academy: Long Term Curriculum Map for Science



5/6 Year A	Living Things and Their Habitats Year 5	Living Things and Their Habitats Year 6	Electricity Year 6	Properties of Materials Year 5	Evolution Year 6	
5/6 Year B	Animals including Humans Year 5	Animals including Humans Year 6	Light Year 6	Forces Year 5		Earth and Space Year 5