



# Science Curriculum Coverage Year A

Year 1 & 2 coverage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Every Day Materials	Every Day Materials Seasonal Changes Autumn	Uses of everyday Materials Seasonal Changes Winter	Uses of everyday Materials Seasonal Changes Spring	Plants	Plants Seasonal Changes Summer
Year 1						
National Curriculum Objectives/Unit						
Asking simple questions and recognising that they						
can be answered in different ways Observing closely, using simple equipment						





Performing simple tests			
Identifying and classifying			
Using observations and ideas to suggest answers to questions			
Gathering and recording data to help in answering questions			
Plants			
Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees			
Identify and describe the basic structure of a variety of common flowering plants including trees			
Everyday materials			
Distinguish between an object and the material from which it is made			
Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock			
Describe the simple physical properties of a variety of everyday materials		 	
Compare and group together a variety of everyday			





materials on the basis of their simple physical properties			
Seasonal Changes	 	 	
Observe changes across the 4 seasons			
Observe and describe weather associated with the seasons and how day length varies			

Year 2								
National Curriculum Objectives/Unit								
Scientific Enquiry								
Asking simple questions and recognising that they can be answered in different ways								
Observing closely, using simple equipment								
Performing simple tests								
Identifying and classifying								
Using observations and ideas to suggest answers to questions								





Gathering and recording data to help in answering questions			
Plants	 	 	 
Observe and describe how seeds and bulbs grow into mature plants			
Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy			
Everyday materials	 	 	 
Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses			
Find out how the shapes of solid objects made from materials can be changed by squashing, bending, twisting and stretching			

Year 3 & 4 coverage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	States of Matter	Rocks	Forces and Magnets	Forces and Magnets	Electricity	Plants
Year 3	matter		Magnets	Magnets		





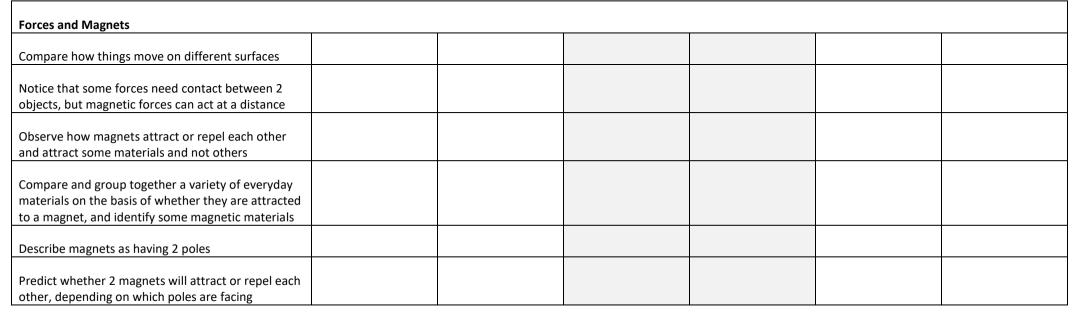
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National Curriculum Objectives/Unit				
Scientific Enquiry				
Asking relevant questions and using different types of scientific enquiries to answer them				
Setting up simple practical enquiries, comparative and fair tests				
Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers				
Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions				
Recording findings using simple scientific language. Drawings, labelled diagrams, keys, bar charts, and tables				
Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions				
Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions				
Identifying differences, similarities or changes related to simple scientific ideas and processes				





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Using straightforward scientific evidence to answer questions or to support their findings									
Plants									
Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers									
Explore the requirements of plants for life and growth (Air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant									
Investigate the way in which water is transported within plants									
Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal									
Rocks									
Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties									
Describe in simple terms how fossils are formed when things that have lived are trapped within rock									
Recognise that soils are made from rocks and organic matter									





Year 4			
National Curriculum Objectives/Unit			
Scientific Enquiry			
Asking relevant questions and using different types of scientific enquiries to answer them			
Setting up simple practical enquiries, comparative			





and fair tests			
Making systematic and careful observations and,			
where appropriate, taking accurate measurements			
using standard units, using a range of equipment,			
including thermometers and data loggers			
Gathering, recording, classifying and presenting data			
in a variety of ways to help in answering questions			
Recording findings using simple scientific language.			
Drawings, labelled diagrams, keys, bar charts, and			
tables			
Reporting on findings from enquiries, including oral			
and written explanations, displays or presentations			
of results and conclusions			
Using results to draw simple conclusions, make predictions for new values, suggest improvements			
and raise further questions			
Identifying differences, similarities or changes			
related to simple scientific ideas and processes			
Using straightforward scientific evidence to answer			
questions or to support their findings			
States of Matter			
Compare and group materials together, according to			
whether they are solids, liquids or gases			
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Observe that some materials change state when			
they are heated or cooled, and measure or research			





the temperature at which this happens in degree Celsius			
Identify the part played by evaporation and			
condensation in the water cycle and associate the			
rate of evaporation with temperature			
Electricity		 	 
Identify common appliances that run on electricity			
Construct a simple series electrical circuit,			
identifying and naming its basic parts, including			
cells, wires, bulbs, switches and buzzers			
Identify whether or not a lamp will light in a simple			
series circuit, based on whether or not the lamp is			
part of a complete loop with a battery			
Recognise that a switch opens and closes a circuit			
and associate this with whether or not a lamp lights			
in a simple series circuit			
Recognise some common conductors and insulators,			
and associate metals with being good conductions			





Year 5 & 6 coverage	Autumn 1 Properties and Changes of Materials	Autumn 2 Properties and Changes of Materials	Spring 1 Forces	Spring 2 Forces	Summer 1 Electricity	Summer 2 Living Things and their Habitats
Year 5						
National Curriculum Objectives/Unit						
Scientific Enquiry						
Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary						
Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate						
Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs						
Using test results to make predictions to set up further comparative and fair tests						





Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations			
Identifying scientific evidence that has been used to support or refute ideas or arguments			
Living things and their habitats			
Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird			
Describe the life process of reproduction in some plants and animals			
Properties and changes of materials	 		
Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets			
Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution			
Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating			
Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday			





materials, including metals, wood and plastic							
Demonstrate that dissolving, mixing and changes of state are reversible changes							
Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda							
Forces							
Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object							
Identify the effects of air resistance, water resistance and friction, that act between moving surfaces							
Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect							
Practical Investigation Skills Recap							
Identify and know the different types of variable in a fair test							
Know the value of a quality scientific diagram and how to construct one.							
Write a concise and accurate method							





Know how to collect and process data appropriate to an investigation			
Communicate results appropriate to the investigation			
Write up a complete investigation including a conclusion			
Year 6			
National Curriculum Objectives/Unit			
Scientific Enquiry			
Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary			
Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate			
Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs			
Using test results to make predictions to set up further comparative and fair tests			
Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other			



