Working Scientifically: Progression

The following practical scientific methods, processes and skills are covered through the programme of study content:

Year 1 & 2	Year 3 & 4	Year 5 & 6
• Can ask simple questions and recognising that they can be answered in different ways • Can observe closely, using simple equipment • Can performing simple tests • Can identifying and classifying • Can use their observations and ideas to suggest answers to questions • Can gather and record data to help in answering questions	• Can ask relevant questions and using different types of scientific enquiries to answer them • Can set up simple practical enquiries, comparative and fair tests • Can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers • Can gather, record, classify and present data in a variety of ways to help in answering questions • Can recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables • Can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions • Can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions • Can identify differences, similarities or changes related to simple scientific ideas and processes • Can use straightforward scientific evidence to answer questions or to support their findings	• Can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • Can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • Can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • Can use test results to make predictions to set up further comparative and fair tests • Can 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 • Can identify scientific evidence that has been used to support or refute ideas or arguments

Science Topic Coverage: Whole School

	EYFS:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	✓	✓	✓	✓			(✓)
Animals, including Humans	✓	✓	✓	✓	✓	✓	✓
Living Things and their Habitats	✓		✓		✓	✓	✓
Evolution and Inheritance							✓
Rocks				✓			
Everyday Materials	✓	✓	✓				
Properties-Change of Materials						✓	
States of Matter	✓				✓		
Light				✓			✓
Sound					✓		
Forces and Magnets	✓		(✓)	✓		✓	
Seasonal Change	✓	✓					
Earth and Space						✓	
Electricity					✓		✓

Animals, including Humans: Progression Example

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of animals (birds, fish, amphibians, reptiles, mammals and invertebrates, and including pets) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	Notice that animals, including humans, have offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene.	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some animals have skeletons and muscles for support, protection and movement	Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in humans and their simple functions Construct and interpret a variety of food chains, identifying producers, predators and prey	Describe the changes as humans develop from birth to old age	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans.