

## Progression in Science – Disciplinary Knowledge (Working Scientifically)

	FOUNDATION STAGE	KEY STAGE ONE		LOWER KEY STAGE TWO		UPPER KEY STAGE TWO	
	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		Plants Animals Materials Seasonal Changes	Living Things Plants Animals Materials	Plants Animals Rocks Light Forces	Living Things Animals States of Matter Sound Electricity	Living Things Animals Materials Earth and Space Forces	Living Things Animals Evolution and Inheritance Light Electricity
<b>KEY CONCEPTS</b>  Scientific Questions and Planning	Make observations of animals and plants and explain why some things occur, and talk about changes.	Ask simple questions and recognise that they can be answered in different ways.		Ask relevant questions and use different types of scientific enquiries to answer them.  Set up simple practical enquiries, comparative and fair tests.		Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	
<b>KEY CONCEPTS</b>  Observing and Measuring		Observe closely, using simple equipment.  Perform simple tests.		Make systematic and careful observations and, where appropriate, take accurate measurements, using standard units, using a range of equipment, including thermometers and data loggers.		Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat reading when appropriate.	
<b>KEY CONCEPTS</b>  Recording and Analysing		Gather and record data to help in answering questions.  Identifying and classifying		Gather, record, classify and present data in a variety of ways to help in answering questions.  Record findings, using simple scientific language, drawing, labelled diagrams, keys, bar charts and tables.		Record data and results of increasing complexity, using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	
<b>KEY CONCEPTS</b>  Reporting and Presenting		Use their observations and ideas to suggest answers to questions.		Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.		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.	
<b>KEY CONCEPTS</b>  Evaluating and Using Evidence		Gather and record data to help in answering questions.		Identify differences, similarities or changes related to simple scientific ideas and processes.  Use straightforward scientific evidence to answer questions or to support their findings.		Use test results to make predictions to set up further comparative and fair tests.	

