









	Strand	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working scientifically	Asking questions & planning enquiries 	<ul style="list-style-type: none"> • Draw on own experiences and what has been read in class to ask relevant questions 	<ul style="list-style-type: none"> • Ask simple questions about the world 	<ul style="list-style-type: none"> • Ask simple questions about the world 	<ul style="list-style-type: none"> • Ask relevant questions 	<ul style="list-style-type: none"> • Ask relevant questions • Use different types of scientific enquiry to answer them 	<ul style="list-style-type: none"> • Plan enquiries to answer questions • Recognise and name different variables 	<ul style="list-style-type: none"> • Plan enquiries to answer questions • Identify and control variables
	Observing & measuring 	<ul style="list-style-type: none"> • Make observations e.g. of animals and plants 	<ul style="list-style-type: none"> • Observe carefully using simple equipment 	<ul style="list-style-type: none"> • Observe carefully using simple equipment 	<ul style="list-style-type: none"> • Observe and measure accurately using a range of equipment, e.g. thermometers 	<ul style="list-style-type: none"> • Observe and measure accurately using a range of equipment, e.g. data loggers 	<ul style="list-style-type: none"> • Observe and measure using a range of scientific equipment, with increasing accuracy and precision 	<ul style="list-style-type: none"> • Measure precisely and accurately using a range of scientific equipment • Take repeat readings
	Recording & presenting data 	<ul style="list-style-type: none"> • Draw pictures of animals and plants • Recognise some important processes and changes in the natural world e.g. the seasons, changing states of matter. 	<ul style="list-style-type: none"> • Present data using labelled diagrams and simple tables • Identify and make groups 	<ul style="list-style-type: none"> • Present data using labelled diagrams, pictograms, block diagrams, tally charts, tables • Identify and classify groups 	<ul style="list-style-type: none"> • Record, classify and present data using keys, drawings, labelled diagrams, bar charts and tables 	<ul style="list-style-type: none"> • Record, classify and present data using keys, drawings, labelled diagrams, bar charts and tables 	<ul style="list-style-type: none"> • Record data and results using diagrams, labels, tables, bar and line graphs 	<ul style="list-style-type: none"> • Record data and results using scientific diagrams and labels • Choose the most appropriate method of recording, e.g. classification keys, tables, scatter graphs, bar, line graphs
	Performing tests & making predictions 	<ul style="list-style-type: none"> • Know some similarities and differences in the natural world around them and contrasting environments 	<ul style="list-style-type: none"> • Carry out simple tests 	<ul style="list-style-type: none"> • Carry out simple tests 	<ul style="list-style-type: none"> • Make predictions to help set up fair tests with support 	<ul style="list-style-type: none"> • Make predictions to help set up fair tests that compare ideas 	<ul style="list-style-type: none"> • Make predictions from results and use in further fair & comparative tests 	<ul style="list-style-type: none"> • Make predictions from results to set up further comparative and fair tests



	<p>Reporting, & communicating data</p> 	<ul style="list-style-type: none"> Express own ideas from observations using recently introduced vocabulary with support and modelling 	<ul style="list-style-type: none"> Collect data to answer questions 	<ul style="list-style-type: none"> Collect data to answer questions 	<ul style="list-style-type: none"> Begin to report findings in different ways Use oral and written forms to present ideas 	<ul style="list-style-type: none"> Report findings using displays and presentations Use oral and written forms to present ideas 	<ul style="list-style-type: none"> Report and present findings with simple explanations Use oral and written forms to present ideas 	<ul style="list-style-type: none"> Report and present findings including how results might not be true Explain causal relationships Use oral and written forms to present ideas
	<p>Analysing findings & drawing conclusions</p> 	<ul style="list-style-type: none"> Offer explanations for why things might happen 	<ul style="list-style-type: none"> Suggest answers to questions 	<ul style="list-style-type: none"> Answer questions in different ways 	<ul style="list-style-type: none"> Use these to draw simple conclusions and suggest improvements 	<ul style="list-style-type: none"> Identify differences, similarities and changes Use straight-forward scientific evidence to support findings 	<ul style="list-style-type: none"> Identify simple scientific evidence that has been used to support ideas or arguments 	<ul style="list-style-type: none"> Identify scientific evidence that has been used to support or disprove ideas or arguments
<p>Associated maths skills</p>	<p>Statistics & Measures</p>	<ul style="list-style-type: none"> Understand numbers 1 to 10 and compare quantities and measures e.g. length 	<ul style="list-style-type: none"> Recognise e.g. the tallest/shortest, heaviest/lightest, before/after Measure in cm – length and height Measure mass capacity volume with simple scales Recognise hours minutes seconds 	<ul style="list-style-type: none"> Tally chart Bar charts Tables Block diagrams Pictograms (2, 5,10) Metric measures – cm, m, g, kg, ml Measure simple temperatures 	<ul style="list-style-type: none"> Tally charts Bar charts Pictograms Two-way tables Metric measures including mm, cm, m, kg, g Read scales with support Analogue and digital time in 5-minute intervals 	<ul style="list-style-type: none"> Tally charts Bar charts Pictograms Two-way tables Line graphs Metric measures including mm, cm, m, km, kg, g Read scales Analogue and digital time 24-hour clock 	<ul style="list-style-type: none"> Tally charts Bar charts Pictograms 2 way tables Line graphs Metric measures including m, cm, mm, kg, g, l, ml Read scales Analogue and digital time 24-hour clock 	<ul style="list-style-type: none"> Tally charts Bar charts Pictograms 2 way tables Line graphs Dual bar charts Pie charts including % Mean averages Read scales Metric measures calculate & convert Analogue and digital time 24-hour clock