










# Working Scientifically Progression



	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Asking Questions 	Use results to <b>ask and answer questions</b>	<b>Ask questions</b> and raise scientific questions with support	Ask relevant <b>questions</b> in a group	Ask relevant <b>questions</b> in a group, suggesting possible answers	Use and ask scientific <b>questions</b> to investigate	<b>Ask and generate questions</b> concerning fair testing
Making Predictions 	Make simple <b>predictions</b> with support	Make simple <b>predictions</b> independently	<b>Make predictions</b> about what might happen	<b>Make predictions</b> using scientific evidence	<b>Make predictions</b> thinking about scientific evidence	<b>Make predictions</b> and recognise when scientific evidence supports an idea or not  Use test results to <b>make predictions</b> for further tests and explain why
Carrying out tests 	Carry out simple <b>tests</b> in a small group	Plan <b>tests</b> deciding what to observe or measure	<b>Carry out tests</b> deciding what to observe or measure	<b>Carry out tests</b> , identifying control variables with support	Choose <b>tests</b> that will provide the best enquiry or evidence	When <b>carrying out tests</b> recognise variables when selecting an investigation
Observing and measuring 	Take <b>measurements</b> using non-standard units	<b>Observe</b> and explain why something has happened  <b>Measure</b> using non-standard units	<b>Observe and measure</b> using whole number standard units	<b>Observe systematically and measure</b> using more complex standard units	<b>Observe and measure</b> discussing when to take repeat readings	<b>Observe and</b> recognise differences in repeated <b>measurements or observations</b>

Recording data 	Record and present <b>data</b> with support	Record <b>data</b> in a group independently	Record <b>data</b> and present data in bar charts	Record and present <b>data</b> using bar charts where intervals and ranges are agreed as a class	Record and present <b>data</b> in a variety of ways	Record <b>data</b> independently using scatter, bar, and line graphs
Interpreting and communicating 	Interpret and communicate why something has happened with support	Interpret and communicate <b>results</b> in a group	Interpret and communicate whether what has happened was expected or not	Interpret and communicate about what has happened and explain why	Interpret and communicate results	Interpret and communicate data to be presented
Evaluating 	Evaluate with support why something has happened	Evaluate results in a group	Evaluate and explain why something has happened	Use results to <b>evaluate</b> and link back to predictions made	Evaluate an investigation by suggesting improvements	Evaluate by comparing their results with others  Evaluate when scientific evidence supports an idea or not