

Essential knowledge and skills for working scientifically

KS1, Observing Closely, Performing Tests, Identifying and Classifying and Recording Findings.

KS2, Planning, Obtaining and Presenting Evidence, Considering Evidence and Evaluating.

<u>Year group</u>	<u>I can statement</u>
Year 1	<ol style="list-style-type: none">1. I can ask simple questions.2. I can observe carefully.3. I can perform a simple test4. I can identify different groups.5. I can gather and record data to help to answer questions.
Year 2	<ol style="list-style-type: none">1. I can ask simple questions and recognize that they can be answered in different ways.2. I can observe carefully using simple equipment.3. I can carry out a simple fair test.4. I can identify and classify things into different groups.5. I can gather, record and present data to help me to answer questions.
Year 3	<ol style="list-style-type: none">1. I can ask relevant questions and I can make predictions.2. I can begin to plan and carry out scientific enquiries to answer these questions including comparative tests.3. I can make careful observations, take and record accurate measurements, using a range of equipment.4. I can use these results to say whether they help me to answer my question.5. I can write a conclusion.
Year 4	<ol style="list-style-type: none">1. I can ask relevant questions and I can make and record predictions.2. I can plan and carry out different types of scientific enquiries to answer these including fair testing.3. I can make careful observations, take and record accurate measurements, using standard units, using a range of equipment.4. I can use these results to say whether they help me to answer my question or help me raise a new question.5. I can write and present a conclusion. I can suggest ways to improve my enquiry.
Year 5	<ol style="list-style-type: none">1. I can ask questions, make and record predictions and plan and do different

	<p>types of scientific enquiries to answer these questions.</p> <ol style="list-style-type: none"> 2. I can begin to recognise variables (Independent, dependent or/and controlling.) 3. I can take accurate measurements including sometimes taking repeat readings when needed. 4. I can record and present this data in different ways for example, diagrams and labels, keys, tables and graphs. 5. I can to say whether this data helps me to answer my question or helps me raise a new question. 6. I can report and present findings including conclusions in both oral and written forms.
Year 6	<ol style="list-style-type: none"> 1. I can ask questions, make and record predictions and plan and do different types of scientific enquiries to answer these questions. 2. I can recognise and control variables when needed. 3. I can take accurate measurements including taking repeat readings when needed. 4. I can record and present more complex data in different ways for example, diagrams and labels, keys, tables, scatter, bar and line graphs. 5. I can use these results to say whether they help me to answer my question or help me raise a new question or prompt further enquires. 6. I can report and present findings including conclusions in a variety of forms.