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| Working Scientifically skills | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| 5 types of enquiries:* Observe over time
* Pattern seeking
* Identifying, classifying and grouping
* Comparative and Fair test
* Research using secondary sources
 | Know how to ask simple scientific questions Know how to use simple equipment to make observations Know how to carry out simple tests Know how to identify and classify things Know how to explain to others what I have found out Know how to use simple data to answer questions | Know how to ask relevant Scientific questions Know how to use observations and knowledge to answer scientific questions Know how to set up a simple enquiry to explore a scientific question Know how to set up a test to compare two things Know how to set up a fair test and explain why it is fair Make careful and accurate observations, including the use of standard units Know how to use equipment, including thermometers and data loggers to make measurementsGather, record, classify and present data in different ways to answer scientific questions Know how to use diagrams, keys, bar charts and tables- using scientific language Know how to use findings of a report in different ways, including oral and written explanations, presentations.  Know how to draw conclusions and suggest improvements Know how to make a prediction with a reason Know how to identify differences, similarities and changes related to an enquiry   | Know how to plan different types of scientific enquiry Know how to control variables in an experiment Know how to measure accurately and precisely using a range of equipment Know how to record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Know how to use the outcome of test results to make predictions and set up further comparative and fair tests Know how to report findings from enquiries in a range of ways Know how to explain a conclusion from an enquiryKnow how to explain causal relationships in an enquiry Know how to relate the outcome of an enquiry to scientific knowledge in order to state whether evidence supports or refutes and argument or theory Read, spell and pronounce scientific vocabulary accurately  |