| L | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|-----------------------|---|---|---|--|--|---------------------------------------|
| | Explore the natural | Ask simple questions. | Ask simple questions and | Ask relevant questions | Ask relevant questions and use different | Ask relevant questions | Ask relevant questions and use |
| | world around them. | | recognises that simple | and use different types | types of scientific enquiries to answer | and use different types | different types of scientific |
| | - 1 | Observe closely. | questions can be answered | of scientific enquiry to | them. | of scientific enquiries to | enquiries to answer them. |
| | Describe what they | | in different ways. | answer them. | | answer them. | |
| | see, hear, and feel | Perform simple tests | | | Set up simple practical enquiries, | | Plan different types of scientific |
| | whilst outside. | to explore a question | Observe closely using | Make systematic and | comparative and fair tests. | Identify one or more | enquiries to answer questions, |
| | - 11 1 | or idea suggested to | simple equipment. | careful observations | | control variables in | including recognising and |
| | Talk about what | them, with support. | | during a fair test. | Know which are control, dependent and | investigations when | controlling variables where |
| | they see, using a | C-+h | Identify things to measure | Plan and carry out a | independent variables in a fair test. | conducting a fair test. | necessary. |
| | wide vocabulary. | Gather and record data using a given | or observe that are relevant to the guestion or | simple fair test relevant | Identify one or more control variable from | Identify which type of | Recognise which type of practical |
| | Explore collections | table. | ideas they are investigating | to the question or ideas | those provided when conducting a fair | measurements should | enquiry is most appropriate to the |
| | of materials with | table. | using a simple test (in a | they are investigating. | test. | be taken. | question or idea being investigated |
| | similar and /or | | group or independently). | they are investigating. | test. | De laken. | before planning and carrying out |
| | different properties. | | group of maepenaemay). | Take and record | Make observations and take increasingly | Take accurate and | the enquiry. |
| | amerent properties. | | Record data in a wider | accurate measurements | accurate measurements using standard | appropriate | the chiquity. |
| | Use all their senses | | range of given ways. | using standard units (e.g. | units (e.g. to a decimal point). | measurements using | Take measurements, using a range |
| | in hands-on | | range of given ways. | to a whole cm). | diffes (e.g. to a accimal point). | specific, provided | of scientific equipment, with |
| | exploration of | | Use their data and results | to a whole emy. | Use a range of equipment, including | equipment. | increasing accuracy and precision. |
| | natural materials. | | to answer questions. | Gather and record data | thermometers and data loggers. | equipinent. | mercasing accuracy and precision. |
| | natarar materials. | | to answer questions. | into simple formats (e.g. | thermometers and data loggers. | Record data and results | Identify when to take repeat |
| | | | Use observations and ideas | tables and bar charts). | Gather, record, classify, and present date | (e.g. using scientific | readings when appropriate. |
| | | | to suggest answers to | | in a variety of ways to help in answering | diagrams and labels, | 8 |
| | | | questions. | Use simple scientific | questions. | classification keys, | Record data and results of |
| | | | ' | language to present | | tables, scatter graphs, | increasing complexity using |
| | | | | findings. | Record findings using simple scientific | bar and line graphs). | scientific diagrams and labels, |
| | | | | | language, drawings, labelled diagrams, | | classification keys, tables, scatter |
| | | | | Record and report | keys, bar charts, and tables. | Use test results to make | graphs, bar and line graphs. |
| | | | | findings from enquiries | | predictions. | |
| | | | | in labelled drawings and | Report on findings from enquiries, | | Use test results to make prediction |
| | | | | diagrams. | including oral and written explanations, | Report and present | to set up further comparative and |
| | | | | | displays or presentations of results and | findings from enquiries | fair tests. |
| | | | | Draw simple conclusions | conclusions. | with a given format. | |
| | | | | using my own results. | | | Report and present findings from |
| | | | | | Use results to draw simple conclusions, | | enquiries, including conclusions, |
| | | | | Begin to recognise when | make predictions for new values, suggest | | casual relationships and |
| | | | | a test is not fair and | improvements and raise further questions. | | explanations of results, in oral and |
| | | | | suggest improvements. | | | written forms such as displays and |
| | | | | | Identify differences, similarities, or | | other presentations. |
| | | | | Identify differences and | changes related to simple scientific ideas | | |
| | | | | similarities. | and processes. | | Identify scientific evidence that has |
| | | | | | Hea straightforward situatific and dec | | been used to support or refute |
| | | | | | Use straightforward scientific evidence to | | ideas or arguments. |
| | | | | | answer questions or to support their findings. | | |
| H | explore, describe, | nronerties magnifying g | lass question answer | fair test comparative accu | urate, standard units, thermometer, data | control variables classify | comparative, enquiry, casual |
| | see, hear, smell, | properties, magnifying glass, question, answer, observe/observation, test, explore, gather, record, | | logger, gather, record, classify, present, data, tables, bar graph, | | | cise, measurements, opinion, fact, |
| | touch, taste. | label, data, identify, classify, equipment, measure, | | classification keys, presentation, explain, conclusion, prediction, | | | line graph, scatter graph, repeat |
| | , | table, diagram, pictogram | | differences, similarities, theory, dependent variable, independent | | readings, secondary information, justify, outlier, anomaly | |
| | | , 5 ,, | | variable, results | |] , , , , , , , , , , , , , , , , , , , | |

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