

WORKING SCIENTIFICALLY						
EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Choose the resources they need for their chosen activities and say when they do or don't need help	Ask simple questions and recognise that they can be answered in different ways	Ask simple questions and recognise those that can/cannot be answered	Ask relevant questions and use different types of scientific enquiries to answer them	Ask relevant questions and use different types of scientific enquiries to answer them	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
Know the similarities and differences in relation to places, objects, materials and living things Make observations of animals and plants Talk about the features of their own immediate environment and how environments might vary from one to another Explain why some things occur and talk about changes	Observe closely, using simple equipment Use their observations and ideas to suggest answers to questions	Observe closely, choosing from a range of simple equipment Use observations and ideas to predict outcomes of enquiries	Make careful observations	Make systematic and careful observations		
Select and use technology for particular purposes	Perform simple tests suggested to them	Perform simple tests	Set up simple practical enquiries, comparative and fair tests	Set up simple practical enquiries, comparative and fair tests		
Represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role-play and stories	Gather and record data to help in answering questions.	Gather and record data to help answer questions	Gather, record, classify and present data to help answer questions Where appropriate, take accurate measurements using standard and non-standard units, using a range of equipment	Gather, record, classify and present data in a variety of ways to help in answering questions Where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	Take measurements, using a range of scientific equipment	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
Explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	Identify and classify.	Identify and classify	Identify differences and similarities related to simple scientific ideas	Identify differences, similarities or changes related to simple scientific ideas and processes	N/A	N/A
N/A	N/A	N/A	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	Record findings using a range of scientific language, drawings, labelled diagrams, keys, bar charts and tables	Record data and results using scientific diagrams and labels, classification keys, tables, bar and line graphs	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

N/A	N/A	N/A	Report on findings from enquiries, including oral and written explanations of results and conclusions	Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	Report and present findings from enquiries, including conclusions, causal relationships in oral and written forms such as displays and other presentations	Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
N/A	N/A	N/A	Use results to draw simple conclusions, make predictions and suggest improvements	Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	Use test results to begin to make predictions to set up further comparative and fair tests	Use test results to independently make predictions to set up further comparative and fair tests
N/A	N/A	N/A	Use straightforward scientific evidence to answer questions	Use straightforward scientific evidence to answer questions or to support their findings.	Identify scientific evidence that has been used to support or refute ideas or arguments	Identify scientific evidence that has been used to support or refute ideas or arguments