



Progression of Skills

In Science

KS1 – Working Scientifically Targets

Early Years	Year 1	Year 2
	Expected Targets	Super Challenge Targets
Question why things happen	Ask simple questions about the world around me.	Ask relevant questions
Begin to understand how and why questions.	Observe closely, using simple equipment.	Set up simple practical enquiries, comparative and fair tests.
Show awareness of their environment making comments about their findings,	Perform simple tests.	Make accurate measurements using standard units, using a range of equipment, for example thermometers and data loggers.
Explain own knowledge and understanding, and asks appropriate question of others.	Identify and classify.	Gather, record, classify and presenting data in a variety of ways to help in answering questions.
Looks closely at similarities, differences, patterns and change). Make observations and explain observations (ELG)	Use my observations and ideas to suggest answers to questions	Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables.
	Challenge Target Gather and record data to help in answering questions.	Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
		Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.
		Identify differences, similarities or changes related to simple scientific ideas and processes.



Progression of Skills

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Lower KS2 – Working Scientifically Targets

Year 3		Year 4	
Expected Targets	Met	Super Challenge Targets	Met
Ask relevant questions.		Plan enquiries, including recognising and controlling variables where necessary.	
Set up simple practical enquiries, comparative and fair tests.		Take measurements, using a range of scientific equipment, with increasing accuracy and precision.	
Make accurate measurements using standard units, using a range of equipment, for example thermometers and data loggers.		Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs , and models.	
Gather, record, classify and presenting data in a variety of ways to help in answering questions.		Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.	
Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables.		Present findings in written form, displays and other presentations.	
Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.		Use test results to make predictions to set up further comparative and fair tests.	
Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.		Use simple models to describe scientific ideas.	
Identify differences, similarities or changes related to simple scientific ideas and processes.		Identify scientific evidence that have been used to support or refute ideas or arguments.	



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Upper KS2 – Working Scientifically Targets

Year 5		Year 6	
Expected Targets	Met	Super Challenge Targets	Met
Plan enquiries, including recognising and controlling variables where necessary.		Ask questions and develop lines of enquiry based on observations.	
Take measurements, using a range of scientific equipment with increasing accuracy and precision.		Make predictions using scientific knowledge and understanding.	
Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.		Plan and design investigations and experiments to make observations and test predictions.	
Report findings from enquiries, including oral and written explanations of results, explanations involving casual relationships and conclusions.		Identify independent, dependent and control variables and other factors to be taken into account when collecting evidence and data.	
Present findings in written form, displays and other presentations.		Select appropriate techniques, apparatus and materials during fieldwork and laboratory work, working safely.	
Use test results to make predictions to set up further comparative and fair tests.		Make and record observations and measurements using a range of methods for different investigations.	
Use simple models to describe scientific ideas.		Evaluate the reliability of methods and suggest possible improvements.	
Identify scientific evidence that has been used to support or refute ideas or arguments.		Present observations and data using appropriate methods, including tables and graphs.	
		Interpret observations and data.	
		Present reasoned explanations.	
		Evaluate data, showing awareness of potential errors.	
		Identify questions arising from results of investigations.	