## <u>Science – Knowledge Progression Document</u>

Observing							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Discuss what they can see, touch, smell, hear or taste?  Use simple equipment to help them make observations.	Discuss and describe what they can see, touch, smell, hear or taste.  Use a range of equipment to help them make observations.	Use senses of see, touch, smell, hear or taste to help them answer questions.	Observe changes over different periods of time.	Make systematic	Continue to make systematic and	Continue to make systematic and careful observations of	

Performing Tests and Obtaining Evidence							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Can perform a Can simple test with equiport from an adult.	Year 1 n use simple continued in the second and simple under the dance.  On the second in the second	Year 2 Can use simple equipment to perform a simple est (considering the fairness) Observe changes over time. Notice similarities, lifferences and patterns.				Year 6 Can make precise measurements.  Select appropriate equipment and carry out comparative and fair tests.  Recognise, control variables accurately and fairly, including changes over different periods of time.  Notice patterns, groupings and classify.  Find things out using a wide range of secondary sources.	

Questioning, Prediction and Planning								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Generate questions about the world around them.  Talk about what they think will happen.	questions about a scientific enquiry.  Under guidance	questions about scientific enquiry.  With prompts, begin to make and record simple	Select relevant questions to answer different types of scientific enquiry.  Can use different ideas and suggest how to find something out.  Make and record a prediction.  Explain what data is required.  Set up simple comparative and fair tests.	questions to answer different types of scientific enquiry.  Explain why certain variables have been isolated.	Plan and carry out scientific enquiry to answer their own questions, including recognising and controlling variables.  Make a prediction and explain why.  Identify the key factors when planning a fair test.	Plan, justify (giving reasons) and carry out scientific enquiry to answer their own questions, including recognising and controlling variables.  Use information and test results to make predictions and further comparative tests.  Vary one factor whilst keeping the others the same and explain why.		

Recording and Presenting							
EYFS Yea	r 1 Year 2	Year 2 Year 3	Year 4	Year 5	Year 6		
Show their work using pictures, labels and captions.  Record findings using standard units.  Record information in a chart, table or using ICT.  Read to the pictures, and caption and caption and caption standard to the pictures, and caption and caption and caption are considered as a standard to the pictures, and caption and caption are caption are captions.  Record findings standard to the pictures, and caption and caption are captions.  Record information in a chart, table or using ICT.	w their using labels charts and tables to record the findings are observations.  Their using units.  Measure using simple equipment of some in chart sing ICT.  Interpret are construct simple pictograms, tare charts, bloodiagrams are simple tables.	an use text, agrams, pictures, narts and tables record their adings and oservations.  Can record their observations.  Can record their observations in different ways (labelled diagrams, charts etc.)  Can record their observations in different ways (labelled diagrams, charts etc.)  Describe what they have found out using scientific	Take measurements using different equipment and units of measure and record what they have found in a range of ways.  Use a range of scientific equipment to take accurate measurements or readings.  Record data using diagrams, labels, classification keys, tables, scatter graphs, bar graphs and line graphs.  Interpret and present discrete and continuous data using graphical methods. (Maths Statistics)	Can take measurements using a range of scientific equipment with increasing accuracy and precision.  Take repeat readings when appropriate.  Can record more complex data and results using scientific diagrams, labels, classification keys, tables, scatter graphs, bar and line graphs.  Complete, read and interpret information in table, including timetables. (Maths Statistics)	Explain why they have chosen specific equipment.  Decide which unit of measurement they need to uses.  Make accurate measurements.  Explain why a measurement needs to be repeated.  Record measurements systematically using a range of scientific equipment with increasing accuracy and precision.  Present a report of their findings through writing, display and presentation.  Interpret and construct pie charts and line		
					graphs. (Maths Statistics)		

	Considering Evidence and Evaluating								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
To talk about things they have found out.	To begin to say what happened in my	Talk about what they have found out and how they	Can explain what they have found out and use	Find patterns in evidence or measurements.	Use a graph to answer scientific questions.	Find a pattern from data and explain what it shows.			
	investigation and whether I was surprised at the results or not.	found it out.  To say what happened in my investigation,	measurements to say whether it		Present a report of their findings through writing, display and	Can use a graph to answer scientific questions.  Link what they have found to other science.			
		whether I was surprised at the results or not and what I would change about my		Make a prediction based on something they have found out.  Ask further questions	presentation.	Suggest how to improve their work and say why they think so.			
		investigation.		based on data and observations.  Evaluate what they have found using scientific language, drawings, labelled		Record more complex data and results using scientific diagrams, classification keys, tables, bar charts, pie charts and line graphs and models.			
				diagrams, tables, scatter graphs, bar graphs and line graphs.		Draw conclusions from their work.  Report findings from			
				Identify differences similarities or changes related to simple scientific ideas or processes.		investigations through written explanations and conclusions using appropriate scientific language.			

Vocabulary									
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Begin to use some new words about the word around them.	Pupils should read vocabulary at a le their increasing v knowledge.	and spell scientific vel consistent with word and spelling specific scientific	Pupils should read vocabulary corrections confidence, using reading and knowledge.	and spell scientific ectly and with their growing word edge skills.		d, spell and pronounce y correctly.  use specific scientific			