Broadwood Primary School



Science – Progression Map

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Planning an enquiry		investigate with help. Suggest what might be	investigate and ask questions.	observations.	Identify cause and effect in my investigations. Predict cause and effect (causal prediction).	Plan a fair test by selecting variables to change and measure. Predict a trend (relationship prediction).	Plan a fair test and ensure controlled variables are kept the same. Use Knowledge and Understanding to explain my prediction (relationship).	Plan a reliable fair test (use of variable terminology). Reason Knowledge and Understanding to make a hypothesis (relationship).
Designing tests		(help). Be aware that factors change in an investigation. Use a range of everyday items to investigate. Work safely when given instructions	demo, spoken and picture instructions. Begin to identify variables in an investigation. Use a limited range of science equipment correctly (help). Notice risk (help) &can list some common dangers.	in order. Identify variables in investigations (label & describe). Use a range of science equipment correctly. Notice risk in my investigations &	instructions and write a simple method. Suggest a suitable data range for a variable. Select suitable equipment for the task. Predict obvious risk	simple ordered method (from plan). Suggest a data range & interval for a variable. Select and use suitable equipment for the task.	Select equipment with the correct scale for the task. Begin to plan to	Design and write an ordered reliable method (repeats). Plan to collect repeated readings (>3) & calculate mean. Select & use equipment with the correct scale for the task. Plan to minimise risk & describe safe use of equipment.
Gathering and recording data		Use non-standard units to measure and compare. Use a simple table by recording in pictures & words. Use prepared pictograms to record my observations.	Position numbers on a number track to 100. Measure in non- standard units and compare e.g. heavier/lighter. Use a simple table by recording in words and numbers.	Measure labelled divisions on a number line (inc. in steps). Measure standard units (inc. length, mass, capacity). Use a simple table recording in words & numbers (inc. tally).	divisions on a number line (+ive). Measure & compare values in standard units. Use a frame to construct a simple table of results.	divisions on a number line (+ive values).	Measure divisions on a number line past zero (-ve values). Measure & convert values in standard units (including area). Use a frame to construct a complex table of results. Use a frame to construct a graph & can scale axes (help).	l scale up/down a number line (axis) & decide on limits. Measure/

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			pictograms & block	chart (one axis co- ordinate).	charts correctly	Join plotted co- ordinates with straight lines.	Construct graphs and can scale at least one axis independently. Plot mean values & draw a trend line for linear data.	
Reporting findings and Evaluating	describe simple patterns (e.g. size). Begin to use 'more' or 'less', etc. to compare observations.	number patterns. Use 'more' or 'less' to compare numbers. Describe the changes	features & patterns in data & charts. See obvious differences in sets of numbers. Describe the changes that have happened.	patterns in data, charts and graphs. See subtle differences in sets of numbers. Describe my results by linking cause and effect. Suggest improvements to my method.	patterns trends and relationships in data. See differences (error) in repeated data. Describe trends and begin to use science to explain.	trends & relationships in data. Spot anomalous data that doesn't fit the pattern. Use data in my conclusions & use science to explain. Identify strengths and weaknesses and improvements.	Describe changing patterns trends & relationships in data. Spot anomalous data & explain from the method. Use 1*/2* data & science ideas in my conclusions. Suggest limitations (data) & practical improvements.	