STEEL RIVER ACADEMY TRUST

Progression of Disciplinary Skills Year 3 and 4

Asking questions	Observing and measuring	Setting up tests	Recording Data and findings	Evaluating	Making predictions	Interpreting and communicating results
Asking relevant questions (e.g. Are all metals magnetic?) and using different types of scientific enquiries to answer them (e.g. testing a range of metals for magnetism to formulate an answer to their question)	Making systematic and careful observations (e.g. observing how much water has evaporated at set timed intervals) as well as taking accurate measurements using equipment (e.g. thermometers to measure temperature and data loggers to measure sound and light).	Setting up simple practical enquiries, comparative (testing/comparing multiple things against each other e.g. which material is the most reflective?) and fair tests (how does a variable impact an outcome e.g. How does the distance from a sound source impact the volume heard?)	Gathering, recording, classifying, presenting data and recording findings in a variety of ways to help in answering questions. (e.g. Venn diagrams, bar charts, two-way tables, drawings, labelled diagrams and classification keys)	Using scientific findings to draw simple conclusions (e.g. Not all metals are magnetic), make predictions (e.g. I predict that the aluminium can will not be magnetic because it is the thinnest), suggest improvements (e.g. next time repeat the test 3 times to eradicate any anomaly results) and raise further questions. (e.g. Why aren't all metals magnetic?) Identifying similarities, differences or changes related to simple scientific processes (our 7 disciplinary skills e.g. comparing similarities and differences in a set of results.)	Make relevant predictions that will be tested in a scientific enquiry (e.g. I predict that the stronger the cell, the brighter the bulb will be.)	Use scientific language (e.g. vibrations, attract, repel, exoskeleton, exoskeleton, metamorphic…) Identify and use appropriate methods of recording findings (e.g. oral and written explanations, displays or presentations of results and conclusions.)