

Scientific Enquiry Types Map – KS2 Coverage



N.B. Coverage here is organised into year group objectives. This is not the order they are covered in KS2 due to the mixed age class. See the 4-year rolling programme for order of coverage.

3	Plants Labelled Diagrams Observe plants over time What plants need to live investigation including variables Plants absorbing coloured liquids Tables	Animals Inc. Humans Sorting foods based on what they contain Identifying and grouping animals with and without skeletons	Light Looking for patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes. Drawings	Rocks Research how fossils are formed	Forces & Magnets Cars down a ramp (change angle/surface/size of wheels) Rulers/ Tape measures Tables Comparing strengths of different magnets
4	Electricity Investigate which materials are conductors and which are insulators	Animals Inc. Humans Research into teeth of different animals Test enamel in vinegar (guided) Test enamel in different drinks (independent)	States of Matter Observe the evaporation of water from different places in the school linked with temperature (outside, on the teacher's desk, on the radiator, in the fridge). Thermometers Group and classify different materials	Living things and their habitats Using and making simple guides or keys to explore and identify local plants and animals Keys	Sound Finding patterns in the sounds that are made by different objects such as saucepan lids of different sizes or elastic bands of different thicknesses Data Loggers Bar Chart
5	Earth & Space Group planets based on their size/atmosphere/orbit time/rotational period etc. Modelling proven theories Labelled scientific diagrams	Animals Inc. Humans Researching gestation periods of different mammals Bar Charts Research naturalists e.g. Jane Goodall	Properties & Changes of Materials Fair testing- recover substance from a solution Classification Keys Investigate dissolving of salt/sugar. Patterns in time taken to dissolve with different temperatures/ different sizes of sugar/ stirring or not stirring. Thermometers / Stopwatches	Living things and their habitats Grow plants from cuttings Observe butterflies hatching from chrysalis. Grouping and classifying different creatures Venn Diagrams Labelled Diagrams	Forces Designing and making a variety of parachutes and carrying out fair tests to determine which designs are the most effective Stopwatches Tables Force Meters
6	Electricity Does the number of cells affect the brightness of a bulb in the circuit? Data Logger Scatter Graph Scientific Diagrams	Animals Inc. Humans How does your pulse rate change after exercise? Line Graph	Light Investigating shadows of objects being the same shape as the objects Tables Graphs	Living things and their habitats Use classification systems and keys to identify some animals and plants in the immediate environment Classification Keys	Evolution & Inheritance Research into palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution. Research into proof of evolution

Observing over time

Comparative & Fair Test

Grouping & Classifying

Researching

Pattern Seeking