

Working Scientifically (Years 5 & 6)



In addition to having scientific knowledge, we need to develop our skills.

These are the skills needed for KS2 scientists. Are you doing these during your home experiments? Are you doing these at any other times during the day?



Planning Investigations

- I can plan an enquiry (For example: how do shadows change during the day?)
- I can identify and manage variables (For example: measure how the distance of the shadow changes and different times of day, but keep the item and position the same)



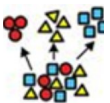
Conducting Experiments

- I can use equipment to take measurements (For example: ruler, distance, timer)
- I can explore how to improve the quality of data (For example: 1 or 2 decimal places)
- I can understand the role of repeat readings (For example: test 3 times and take average)



Recording evidence

- I can record work with diagrams and label them
- I can display data using labelled diagrams, keys, tables and bar charts
- I can display data using line graphs



Reporting findings

- I can process findings to develop conclusions and identify causal relationships
- I can use displays and presentations to report my findings (For example: graphs)
- I can explain confidence in findings (For example: did your experiment work well or not?)



Conclusions and predictions

- I can draw conclusions (For example: this happened because...)
- I can develop investigations further (For example: using this information about friction, I will now design shoes that grip well on ice)