

Golden Concepts

Asking scientific questions

Planning an investigation

Collecting, presenting and interpreting data

Errors and uncertainty

Science in our world

Key Vocabulary

Data	Numbers collected from measurements taken
Patterns	Noticing that numbers are going up, going down or staying the same.
Unexpected	Spotting any data that doesn't look right
Repeat	Conducting the experiment again will allow us to see if the results can be trusted
Control	An experimental practice of keeping everything the same to compare to other examples where a variable has been changed
Units	The unit for mass is grams or kilograms. The unit for temperature is °C
Relationship	Spotting if one thing effects another is identifying a relationship
Equipment	The apparatus used to carry out the experiment
Variables	The things you change, measure and control in an experiment
Labelled diagram	A clear image with labels to help describe part of an experiment
Describe	A sentence to show your understanding of what you observe
Explain	A sentence that gives a logical reason why something has happened based on your scientific understanding

Working Scientifically: KS1 Knowledge Organiser

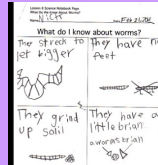
Asking Scientific Questions

Encouraging a student's enquiry skills

'Is there a pattern between'

'why do you think we see?'

'How does _____ affect _____'



Planning an Investigation

Consideration given to equipment used, method and planning a fair test

Naming equipment and using equipment to take measurements



Errors and Uncertainty

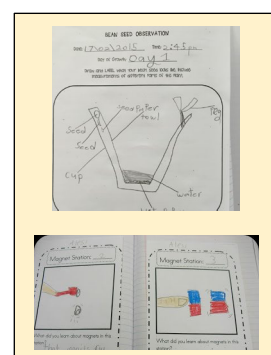
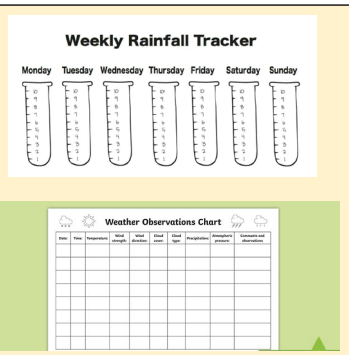
"What do you notice?"

"Can you spot any unexpected data?"

"Could we repeat the test?"



Collecting, presenting and Interpreting data



Science in our world

Make science relevant to each individual in your class. You should try to consider, socioeconomic background, culture, religion, interests.

