

Working Scientifically

LKS2 will explore the world around them and come up with their own questions. They will learn to work scientifically which involves:

Asking simple questions



eg) What if ? Where? How? Why? Which? How many?

Recognising that questions can be answered in different ways

Observing closely using their senses



Using their observations and ideas to suggest answers to questions

Using simple equipment eg) magnifying glasses, timers, thermometers

Performing simple tests

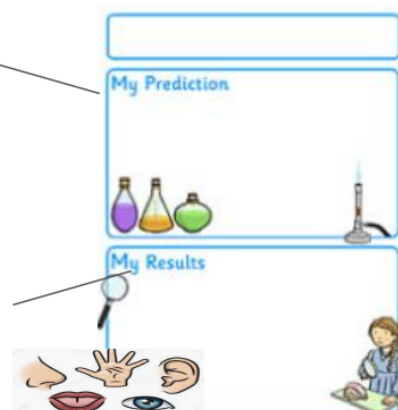
Identifying and classifying

Gathering and recording data to help answer questions

When working scientifically, we may be asked to record our findings:

Prediction: This is what we think will happen and is usually based on what we already know.

Results: We may be asked to write about or draw our results. Remember to use all of your senses **except taste unless your teacher says it is safe!**



Glossary of key words:

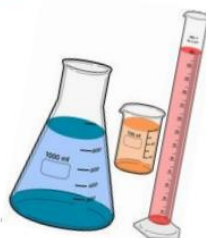
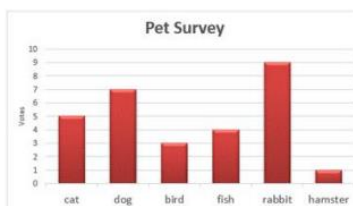
Vocabulary	Definition
Continuous data	Data which can take any values. Examples include time, height and weight.
Discrete Data	Data that can only take certain values. E.g. the number of children in a class.
Enquiry	A question, an investigation or the process of seeking information
Variable	Something that changes or can be changed.
Controlled Variables	The things in an investigation that are kept the same.
Dependent Variable	The think that is being measured in an investigation.
Independent Variable	The <u>one</u> thing you change in an investigation.
Conclusion	A summary of an investigation



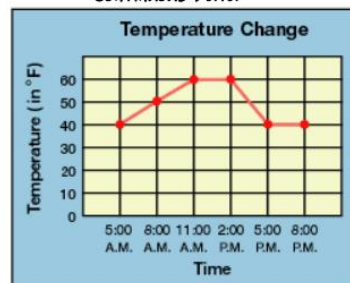
By the end of this unit we will:

- Plan enquiries, including recognising and controlling variables where necessary.
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision.
- Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.

Discrete data



Continuous Data



1.The Power of the Sun p.8

LO: to use the power of the sun to cook

2.Light and Colour p.14

LO: to understand that white light is made up of seven different colours

3.Sound Vibrations p. 20

LO: to understand that sound is made from an object vibrating

4.Under Pressure p. 34

LO: to learn that when you squeeze air or water the pressure increases

5.Electrical Bugs p. 42

LO: to discover which materials conduct electricity

6.Creating Crystals p. 64

LO: to know that crystals are solids made up of particles arranged in a regular pattern

investiga



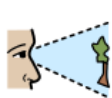
investigate

întrebare



question

observa



observe

ghici



guess

record



record

răspuns



answer

Știință



Science

rezultate



results

echipamente



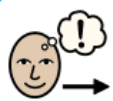
equipment

metodă



method

prezice



predict

măsura



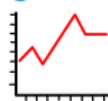
measure

test



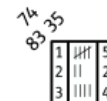
test

grafic



graph

date



data

розслідувати



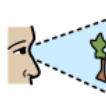
investigate

запитання



question

спостерігати



observe

вгадати



guess

запис



record

відповідь



answer

Наука



Science

результати



results

обладнання



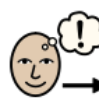
equipment

метод



method

передбачити



predict

міра



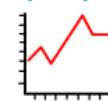
measure

тест



test

графік



graph

даних



data