

Science - Working scientifically

Investigation	Biology	Chemistry	Physics
Scientists design and carry	Scientists have an	Scientists have an	Scientists have an
out investigations.	underslanding of life and	underslanding of malerials	underslanding of physical
	living processes.	and their properties.	proces ses

What should I already know?

A fair test is a test that is carried out changing only one variable. It is used

Data collected during scientific tests can be presented in a graph and graphs can ben used to analyse data.

What am I going to learn?

Science evidence can be used to support or refute ideas or arguments.

Results from experiments can be used to make predictions to set up further comparative and fair tests. During these experiments a range of equipment might be used. This could include a Newton Meter, stopwatch, measuring cylinder, funnel, filter paper, pipettes, thermometers and more. It is important to be accurate and precise when using equipment to receive reliable data.





Scienlific questions can be answered by planning a scienlific enquiry including by recognising and controlling variables.

Results from enquiries can be presented in a range of different ways this could include a presentation.

Data can be presented in different ways including scatter graphs..



Key Vocabulary	Definition
variables	A variable is anything that can change and be measured.
accuracy	How close a measurement is to the true or accepted value.
precision	Measures how close results are to one another.
classification	Grouping of organisms.
fair test	A test that controls all but one variable.
conclusion	A summary of results.
prediction	What you think will happen in an experiment.
refule	To prove a statement to be false or incorrect.

Key Scientist(s) - Anders Celsius

Anders Celsius was an astronomer and physicist who created the Celsius temperature scale .



Working Scientifically

To plan different types of scientific enquiries to answer questions and take measurements, using a range of scientific equipment.

To use test results to make predictions to set up further comparative and fair tests.

To report and present findings from enquiries,

To identify scientific evidence that has been used to support or regule ideas or arguments..