

Knowledge: Graphs

1	Bar chart	A graph or chart that displays the values of categories, used for Discontinuous data
2	Line graph	A graph that shows the relationship between two continuous variables.
3	Scatter graph	Used for Continuous data, to look for a pattern or link between two sets of data.
4	Pie chart	A chart that shows the proportions or percentages that make up a whole..

Knowledge: Risk Assessment

1	Hazard	How the equipment could be dangerous
2	Risk	What the hazard could cause
3	Control measure	What can be done to reduce the likelihood of the Hazard/Risk

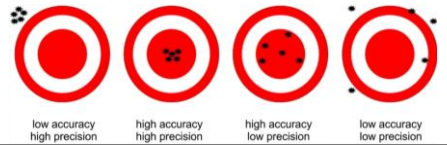
Equipment	Hazard	Risk	Control Measure
Glass Beaker	Could break	Cuts	Clear up any breakages
Kettle water	Boiling water	Burns/Scalds	Bring kettle to station rather than carrying a beaker of boiling water
1Kg Mass	Heavy	Break toes	Keep in middle of table

Knowledge: Variables

A factor that can be changed, measured and controlled.		
1	Independent	What you change in an investigation to see how it affects the dependent variable.
2	Dependent	What you measure or observe in an investigation when you change the independent variable.
3	Control	One that remains unchanged or is held constant to stop it affecting the dependent variable.
4	Continuous	Has values that can be any number.
5	Discontinuous	Has values that are words or discrete numbers.

Knowledge: Accuracy & Precision

1	Accurate	Measurements that are the true value.
2	Precise	This describes a set of repeat measurements that are close together.



Key Vocabulary

1	Categoric	A variable that has values that are words.
2	conclusion	What you write down to say what you have found out during an investigation.
3	correlation	A relationship between variables where one increases or decreases as the other increases.
4	evaluate	To discuss the quality of data collected during an investigation and suggest improvements to the method.
5	hypothesis	An explanation you can test that includes a reason and a 'science idea'.
6	observation enquiry	An experiment to find out about things that change over time.
7	scientific enquiries	Different ways to investigate including observation over time, fair test and pattern seeking.

Knowledge: Mean Average

Used to find the average of multiple sets of data		
Step 1	Add all the data points up	$8 + 6 + 7 + 5 = 26$
2	Divide by how many data points there are	$26 / 4 = 6.5$