Year 7 Science (Introduction to Science)

Key Words

Scientific method	Process of carrying out an investigation which isolates	**Categorical data**	Data that can be grouped (ie: eye colour)
Independent Variable	The variable which you change in an investigation	**Line graph**	Used to plot data that is continuous
Dependent variable	The variable which is measured in an investigation	**Bar graph**	Used to plot data that is categorical.
Control variable	Variables which are kept the same in an investigation	**Line of best fit**	A line which best describes the pattern shown by a set of points
Continuous data	Data that can be any number (ie: height)	**Conclusion**	A written summary that describes the results using data

Lesson Sequence:

1. **Safety in the lab**
2. **Equipment in Science**
3. **Writing a method**
4. **Drawing a graph**
5. **Investigation**
6. **Research and test**

Key Assessments

End of unit test

Experimental write up Skills

Thermometer

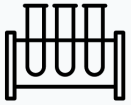
Measures temperature in °C

Measuring cylinder

Measures the volume of liquids in cm^3

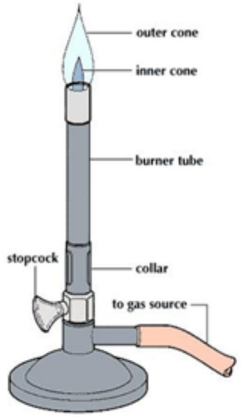
Test tubes and test tube rack

Test tubes hold liquids for experiments and analysis. The rack holds the test tubes.



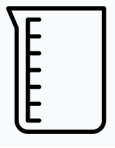
Bunsen burner

Produces a single flame to heat up objects up in a lab



Beaker:

Container for liquids in a lab



Stopwatch

Measures time in seconds (s)

Tripod stand and gauze

Placed over the Bunsen burner to sit equipment on when it is being heated.

Presenting data in science

Tables

Independent variable (units)	Dependent variable (units)

Graphs

Safety in the laboratory

Safety equipment

Safety goggles

Tongs

Test tube holders