

Scheme of Learning: Lab Skills

Topic Sequence:

1	2	3	4	5	6	7	8	9	10
Lab Skills	Particles and Separation Techniques	Forces	Cells and Organisation	Elements and the Periodic Table	Energy	Health and Human Body	Chemical Reactions	Electricity and Magnetism	Reproduction

Topic Overview:

This is the introductory topic all year 7 pupils will complete to enable them to carry out future practical activities in science safely.

Lesson Sequence:

We teach the basic lab safety rules and hazard symbols on chemicals and how to correctly use a Bunsen burner and other key pieces of lab equipment.

We then give an overview of the scientific method with a focus on accuracy and precision and how to collect and display data.

Sequence of Lessons:

1	Lab Safety
2	Bunsen burners
3	Equipment
4	Accuracy & Precision
5	Observing
6	Displaying Data 1
7	Displaying Data 2
8	Summary lesson

Resources:

1	A variety of chemicals with hazard symbols on.
2	n/a
3	Salt.
4	Blue liquid and red liquid. Measured out precisely (doesn't matter the volume so long as you tell the teacher) e.g. 17ml red, 57ml blue. (so they will need a different sized measuring cylinder for each colour.
5	Magnesium, hydrochloric acid, vinegar, calcium carbonate, copper sulphate
6	n/a
7	n/a
8	n/a

Supportive Reading:

Comprehension activity	TBC
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Assessment:

Knowledge:	Multiple choice questions.
Application of Knowledge:	n/a for introductory topic