On these pages, list the equipment and consumables needed for **one** group set.

File a copy in the module folder and give a paper copy to the Lab Technicians

**Week 1**

**Lab1 STAWA Exploring Chemistry Yr 11** p32 Exp 10: Metal crystals

Dimpled microscope slide

microscope

copper foil

silver nitrate in dropper bottle

3 zinc strips

120mL molten agar

0.25g silver nitrate

0.25g copper (II) sulfate

0.25g tin(II) chloride

3 x 100mL beaker

**Lab2**   **Experiment Worksheet**.Beanium Isotope Lab

Balance

Mixture of 3 different coloured beans (e.g. kidney beans, mung beans, chickpeas)

**Week 2**

**Lab1 STAWA Exploring Chem Yr 11** p.10 Exp 1: Mixtures

Matches

Watch glass

Stirring rod

Thermometer

2 x 100mL beaker

25mL measuring cylinder

Balance

Orange juice

Apple juice

Prune juice

Solder

Fruit scone/cake

Charcoal

salt

copper(II) chloride)

ethanol

distilled water

hand lens

**Lab2 Nelson Chemistry Units 1 & 2** p. 169.Comparing the properties of a compound with those of its elements

2 x magnesium ribbon

Steel wool

Crucible and lid

Crucible tongs

Pipe clay triangle

5 x test tubes with stoppers

250mL beaker

Matches

Distilled water

1M hydrochloric acid

Electrical conductivity apparatus

**Week3**

**Lab1 Nelson Chemistry Units 1 + 2** p187 Exp 3.2: Comparing different types of substances

***\*\*This is a round robin activity with 13 mini stations – please arrange one set of equipment only!***

**All stations**

Power pack with kit for measuring conductivity

**Stations 1+2**

2 x crucible with lid

2 x clay pipe triangle

Sodium hydroxide pellets

Silver nitrate crystals

**Stations 3, 4+5**

3 x crucible with lid

3 x hot plate

Candle wax

**DEMO** sulfur & camphor/naphthalene (to be done in fume cupboard)

**Stations 6 - 12**

7 x 100mL beakers

50mL distilled water

50mL kerosene

50mL 0.1M sucrose solution

50mL 0.1M sodium hydroxide solution

50mL 0.1M hydrochloric acid solution

**Station 13**

Piece of copper

Piece of tin foil

Piece of aluminium foil

Piece of quartz

**Lab2**   **Oxford 10**.p. 199 Challenge 3.7 Modelling alloys

4 different coloured plasticine

Sand (12g)

Newspaper

Balance

Hand lens

**Week 4**

**Lab1 P** p.111 Firework Colours

Tongs

Wooden icy pole sticks soaked overnight in:

Distilled water

Barium chloride

Copper chloride

Potassium chloride

Sodium chloride

Strontium chloride

Spectroscope (if available)

Matches

**Lab2**  **OX** p.195 Reactivity of metals

2M HCl

Detergent

0.5cm pieces Magnesium, aluminium, iron, zinc & copper

Steel wool

Test tubes x 5

Timer

**Week 5**

**Lab1 Heinemann 3 p.29 Teacher Demo** Sodium in water**.**

Sodium metal

Forceps

Scalpel or knife

Pneumatic trough

Universal indicator.

**Lab 2** Nil

**Week 6**

**Lab 1 Pearson 3. p.137 Halogen Precipitates**

disposable gloves

white tile or spotting tray

dropping bottles of saturated solutions of:

lead nitrate,   
potassium iodide (KI),

potassium chloride (KCl),

potassium bromide (KBr)

marker pen