Foxford Learning Plan

YEAR 12

Group 2, Group 7 and redox

Summer 1

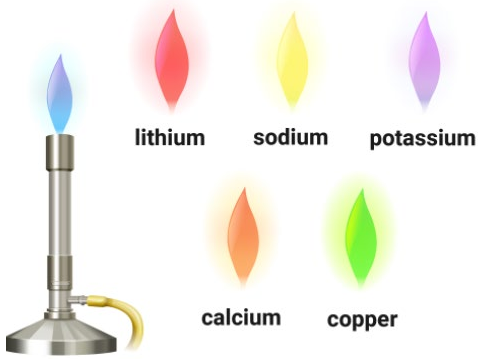
Key Vocabulary

Ionisation energy	Energy change when 1 mole of a gaseous substance has 1 mole of electrons removed
Redox	Short hand for the process of oxidation and reduction
Thermal stability	The ability of a substance to withstand heat
Flame tests	Testing group 2 metal ions
Oxidation	Loss of electrons
Reduction	Gain of electrons
Half equations	Shows what happens to an ion in in term of gaining or losing electrons.

Key Skills

Over the course of the topic, I will be able to: -

- Identify trends in group 2 and group 7
- Calculate an oxidation number
- Write and balance an ionic half equation
- Complete a flame test
- Explain trends in group 2 and group 7



I will understand

1. Trends in reactivity in group 2 and group 7
2. How to generate an ionic half equation
3. How redox effects reactions and equations