

Programme of Study



Subject: Chemistry (Exam Board AQA)

Year: 10

Autumn 1

- i. **Relative masses and moles**
- ii. Equations and calculations
- iii. Masses to balanced equations
- iv. Percentage yield
- v. Atom economy

Autumn 2

- i. **Expressing concentration**
- ii. **Titration calculation**
- iii. **Volume of gases**

Spring 1

- i. **Introduction to electrolysis**
- ii. **Changes at the electrode**
- iii. **Aluminium extraction**
- iv. **Electrolysis of brine**

Spring 2

- i. **Exothermic and endothermic reaction**
- ii. **Energy transfer (hand warmers and cold packs)**
- iii. **Reaction profile**
- iv. **Bond energy calculation**
- v. **Chemical cells and batteries**
- vi. **Fuel cells**

Summer 1

- i. **Rate of reaction**
- ii. **Collision theory and surface area**
- iii. **Effect of temperature**
- iv. **Effect of concentration**
- v. **Experiments on rate**

Summer 2

- i. **Effect of catalyst**
- ii. **Reversible reaction**
- iii. **Dynamic equilibrium**
- iv. **Altering condition in equilibrium**