

### **Chemistry Foundation: Paper 1**

- Separating mixtures
- Metal structure and alloys
- Structure and bonding of graphite, graphene and nanoparticles
- Groups 1 and 7: properties and reactivity
- Calculating relative atomic mass from isotopic data
- Conservation of mass: practical analysis
- Exothermic reaction (metal displacement; reactivity series) : practical analysis
- Electrolysis of aluminium

### **Chemistry Higher: Paper 1**

- Ionic and metallic structures
- Structure and bonding of graphite, graphene and nanoparticles
- Development of the atomic model and experimental evidence
- Exothermic reaction (metal displacement; reactivity series) : practical analysis
- Groups 1 and 7: properties and reactivity
- Calculating enthalpy change from average bond enthalpies
- Electrolysis of aluminium: environmental impact

### **Chemistry Foundation: Paper 2**

- Cracking: balancing equations
- Atmospheric pollution
- Structure and properties of polymers
- Chromatography: method and analysis
- LCA (using data)
- Rates: measuring volume of gas; calculating rate from a graph
- Tests for gases

### **Chemistry Higher: Paper 2**

- Structure and properties of polymers
- Chromatography: method and analysis
- LCA (using data)
- Atmospheric pollution
- Combustion: complete and incomplete (analysis of data and writing equations)
- Rates: measuring loss of mass; calculating rate from a graph