

## Chemistry revision

### Atomic structure

- Atoms elements and compounds and writing word equations
- Composites, polymers and ceramics
- Crystallisation and filtration
- Distillation inc particle model
- Chromatography
- Atoms and their history
- Subatomic particles
- Relative atomic mass / isotopes
- Electronic structure

### Periodic table

- The periodic table
- The development of the periodic table
- Metals and non metals
- Group 1
- Group 7
- Group 7 reactivity
- Group 0

### Chemistry of the atmosphere

- The earths early and current atmosphere
- Greenhouse gases
- Human activities and climate change
- Carbon footprint
- Atmospheric pollutants and properties

### Bonding

- Ions
- Ionic bonding
- Covalent bonding
- Metallic bonding and alloys
- States of matter inc state symbols
- Properties of ionic compounds
- Properties of small molecules inc polymers
- Giant covalent inc diamond, graphite, graphene and fullerene

### Acids and alkalis

- Acids, bases and carbonates
- Acids and metals
- Formulas of salts
- pH scale and neutralisation
- Soluble salts
- Required practical - making salts
- Higher only - Strong and weak acids

### Quantitative

- Conservation of mass
- Balanced equations
- Relative formula mass
- Concentration of solution
- Higher only - Moles
- Higher only - amount of substance
- Higher only - using moles to balance equations
- Higher only - limiting reactants