

KS3 Curriculum Overview – Chemistry 2022

Year
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Mixtures and Separation

- Mixtures
- Solutions
- Evaporation
- Chromatography
- Distillation

Acids and Alkalis

- Hazards
- Indicators
- Acidity and Alkalinity
- Neutralisation
- Neutralisation in Daily Life

The Particle Model

- Solids, liquids and Gases
- Particles
- Brownian Motion
- Diffusion
- Air Pressure

Atoms, elements and molecules

- The Air We Breathe
- Earth's Elements
- Metals and Non-Metals
- Making Compounds
- Chemical Reactions

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Combustion

- Fuels
- Oxidation
- Fire Safety
- Air Pollution
- Global Warming

The periodic Table

- Atomic Model
- Chemical Properties
- Mendeleev's Table
- Physical Trends
- Chemical Trends

Metals and their uses

- Metal Properties
- Corrosion
- Metals and Water
- Metals and Acids
- Pure Metals and Alloys

Rocks

- Rocks and their Uses
- Igneous and Metamorphic
- Weathering and Erosion
- Sedimentary Rocks
- Materials in the Earth

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Making Materials

- About ceramics
- Polymers
- Composite Materials
- Problems with Materials
- Recycling Materials

Reactivity

- Types of Explosion
- Reactivity
- Energy and Reactions
- Displacement
- Extracting

Separation Techniques

- Atoms
- Separating mixtures
- History of the Periodic Table

Reactivity

- Reactions of metals
- Reactivity series

KS4 Curriculum Overview – Chemistry 2022



Specification at a glance

- 1. Atomic structure and the periodic table
- 2. Bonding, structure, and the properties of matter
- 3. Quantitative chemistry
- 4. Chemical changes
- 5. Energy changes
- 6. The rate and extent of chemical change
- 7. Organic chemistry
- 8. Chemical analysis
- 9. Chemistry of the atmosphere
- 10. Using resources

