

CHEMISTRY LEARNING JOURNEY

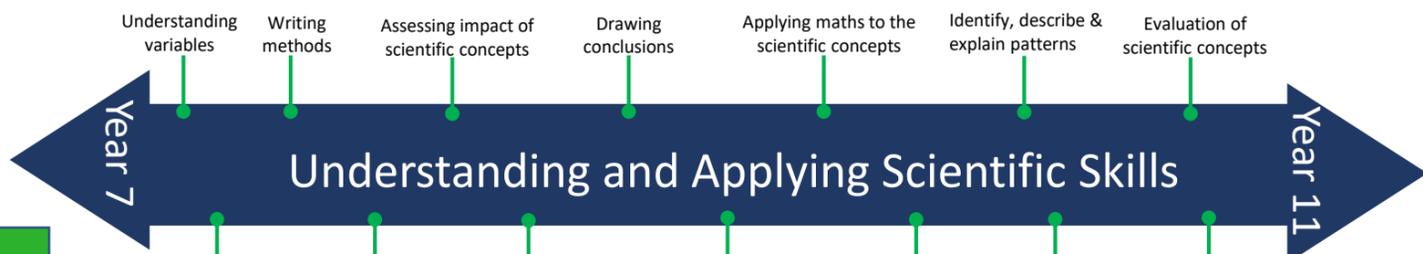
Big Ideas

Matter

Earth

Reactions

Items in italics are for separate science only



Final GCSE exams

Nanoscience

allotropes

Bonding models

Covalent bonds

Ionic bonding

Mendeleev

Weathering

Earth's structure

Calculations

Chromatography

Filtration

Evaporation and distillation

Diffusion

Melting & Freezing

States of matter

Indicators & pH

Acids and alkalis

Metals & water & acids

Signs of a chemical reaction

Recording observations

Identifying experiments variables

Choosing equipment

Identifying risks

Revision

Gas tests

Energy profile diagrams

Using heat energy changes

Endothermic/Endothermic reactions

Activation energies

Bond energies

Electronic configuration

Properties of metals

Group 1 - Alkali metals

Group 7 - The halogens

Group 0 - Nobel gasses

The rock cycle

The modern Periodic Table

Groups and periods

Atom structure

Group 7 - the halogens

Compounds

Naming compounds

Pure water

Exothermic reactions

Energy changes in reactions

Conservation of mass

Conservation of mass

Topic 8 Analysis

Formulations

Testing for saturation

Complete and incomplete combustion of hydrocarbons

Cracking

Hydrocarbons

Crude oil

Sacrificial protection

Alloys

Water treatment

Sewage treatment

Investigating rate of reaction

Reversible reactions

Catalysts

Collision theory

Factors affecting rate of reaction

AI extraction

Displacement reactions

Reactivity series

Limiting reactants

Calculating yield & atom economy

Gas volumes

Metal extraction

Displacement reactions

Reversible reactions

Topic 5 Energy Changes

Gas tests

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Topic 3 Quantitative Chemistry

Calculating moles

Conservation of mass

Calculations using masses

Limiting reactants

Calculating yield & atom economy

Gas volumes

Metal extraction

Displacement reactions

Reactivity series

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Topic 7 Organic Chemistry

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Topic 10 Using Resources

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Topic 4 Chemical Changes

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Topic 6 Rates

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Topic 2 Structure & Bonding

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Topic 1 Atoms & The Periodic Table

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Topic 9 Atmosphere

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