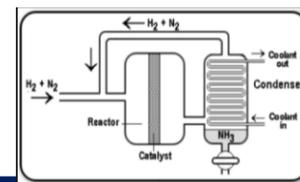


GCSE Chemistry Learning Journey

Assessment:

- Home learning tasks
- Formative assessments within lessons and mid-topic
- Summative end of topic assessments after each topic
- Formal Practice Mock Examinations – June Year 10, December and March of Year 11

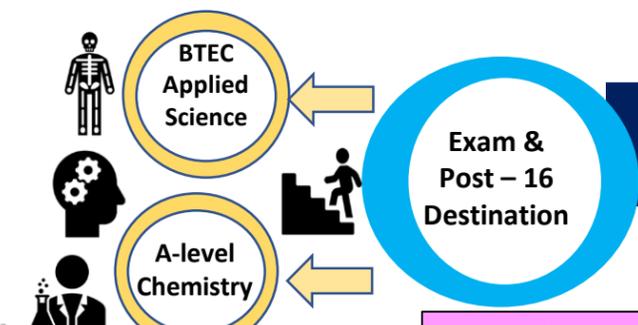
AQA Combined Science Trilogy (8464)
AQA Separate Science: Chemistry (8462)



Haber process & use of NPK fertilisers.

YEAR 11

Chemistry Triple



C10 Using resources

Life cycle assessments and recycling

Distillation of salt water to produce potable water

Potable water

Identify the ions in a single ionic compound using chemical tests. TRIPLE

Properties of metals

Properties of transition metals. Bulk & surface properties of matter + nanoparticles Yield & atom economy.

Alloys

Reactions of alkenes and alcohols

Polymers

Synthetic & naturally occurring polymers.

Using materials

sorting and using materials

GCSE Physics required practicals

Reaction profiles and bond energies

Temperature changes

C4 Chemical Changes

Extraction of metals

Reactivity of metals

Creating a soluble salt

Electrolysis

Full crime scene investigation

Explain and justify the conclusions of the scientific investigation

Climate Change

Effects of Global Warming

Greenhouse gases

The three rock layers: Crust, Mantle and Core

Layers of the Earth

Sedimentary

Igneous

Metamorphic

YEAR 10

C6 The Rate and Extent of Chemical Change

Neutralisation

Conservation of mass

States of matter

Properties of matter.

Chemical bonds, ionic, covalent and metallic

Atoms and isotopes

Periodic table

Relative atomic mass

ELC

Combined Year 1

Forensic Project

Explain and justify the conclusions of the scientific investigation

Full crime scene investigation

C5 Energy Changes

Reaction profiles and bond energies

Temperature changes

C3 Quantitative Chemistry

Relative formula mass

Moles

1 Mole

6.02×10^{23}

C2 Bonding, Structure and the properties of matter

Forms (allotropes) of carbon

How bonding and structure are related to properties

C1 Atomic Structure and the Periodic Table

Model of the atom

Elements and compounds

Reactions of acids

Separating Technique

Reactions

Climate

Reactions

Forensic Project

Explain and justify the conclusions of the scientific investigation

Full crime scene investigation

C9 Chemistry of the atmosphere

Understanding our atmosphere Carbon Cycle and the effect of humans

Greenhouse gases

Evolution of the Earth's atmosphere

Reversible reactions and dynamic equilibrium

Surface area

Temperature

Catalyst

Pressure

Factors affecting rate of reaction

Concentration

C8 Chemical analysis

Investigation in to the use of paper chromatography to separate and identify a mixture of food colourings

C7 Organic Chemistry

Polymers

Combustion

Alkanes

Alkenes

Combustion

Fractional distillation

Year 8

The periodic table

Separating Technique

Reactions

Climate

Year 7

Acids and Alkalis

Atoms, Elements and compounds

States of Matter

Acids and Alkalis

Recognise HAZARD Symbols

ACIDS & ALKALIS

Naming compounds

Arrangement and movement of particles solids, liquids and gases

Properties of solids, liquids and gases

Atoms, Elements and compounds

Reactivity series and displacement reactions

States of Matter

Solid

Liquid

Gas