

Name \_\_\_\_\_

Class \_\_\_\_\_

Teacher \_\_\_\_\_



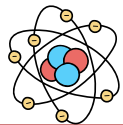
The Marlborough  
Science Academy

# KS4 Chemistry AQA

Yr9

## Atomic Structure

Atomic Structure



Atomic Models



Isotopes



Periodic Table



Reactivity



Transition Metals

## Bonding

Change of State



Ionic Bonding



Metallic Bonding

Covalent Bonding



Properties

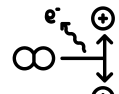


## Energy Changes

Exo and Endothermic



Energy Profiles



Bond Energies

## Chemical Changes

Reactivity Series



Redox



Acids, Bases and Salts



Electrolysis

Fuel Cells



Yr10

## Chemical Quantities

Conservation of Mass

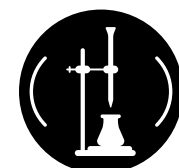


Measuring Mass

Moles



Titration

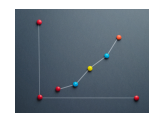


## Rates of Reaction

Measuring Rates of Reaction



Calculating Rate of Reaction



Equilibrium



Factors Affecting Rates

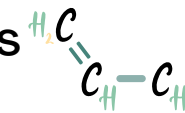
## Hydrocarbons

Crude Oil

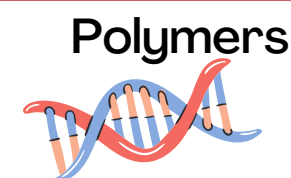
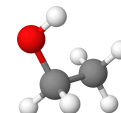


Refining

Alkanes and Alkenes



Alcohols and Acids



Yr11

## Chemical Analysis

Pure Substances



Separating



Chromatography



Spectroscopy

Testing for Chemicals



## The Atmosphere

Earth's Early Atmosphere



Evolution of the Atmosphere



The Greenhouse Effect



Human Impact



## Sustainable Development

Potable Water



Metal Extraction



LCAs



Haber Process and Fertilisers



Science Faculty

