KS4 CHEMISTRY

Learning Journey

Year 11

C9 Atmospheric Chemistry

C9 Test

C10 Earth's Resources

C10 Test

FEB

FEB/MAR MOCKS

Final Exam Prep

Final Exams

C10 Earth's Resources
- Finite & renewable
- Water purification
- Treating water
- LCA
- Metal extraction

C10 Using our Resources (SEP)
- Rusting
- Alloys
- Properties of polymers
- Haber process &
- Fertilisers

C7 Organic Reactions (SEP)
- Reactions of alkenes
- Structure of alcohols, carboxylic acids & Esters
- Reactions & uses of alcohol

NOV MOCKS

OCT

C8 Test

C8 Chemical Analysis

Year 11

Yr 10 Mocks

C7 Test

C9 The Earth's Atmosphere
- Development of the atmosphere
- Human impact on the composition of the atmosphere
- Pollution/climate change

C8 Chemical Analysis
- Formulations
- Pure substances
- Chromatography
- Testing for gases

SEP: Testing positive ions & negative ions

C7 Crude Oil & Fuels
- Crude oil & alkanes
- Fractional distillation
- Combustion
- Cracking

C7 Organic Chemistry

MAR

C3 Quantitative Chemistry

C3 Test

FEB

C6 Rate and Equilibrium

C6 Test

DEC

C5 Test

C3 Chemical Calculations
- Chemical calculations
- Balancing equations
- Moles

SEP: yield, atom economy, expressing conc, titrations, volof gases

C6 Rates & Equilibrium
- Rates of reactions
- Factors that affect rate
- Reversible reactions
- Equilibrium

C7 Polymers (SEP)
- Addition Polymerisation
- Condensation Polymerisation
- Natural polymers
- DNA

C5 Energy

OCT

C4b Test

C4b Electrolysis (and equations)

Year 10

C5 Energy Changes
- Endothermic & exothermic reactions
- Energy changes

SEP: Fuel cells & batteries

C4 Electrolysis
- Recap ions
- Half Equations
- Electrolysis - molten
- Electrolysis - solutions
- Extraction of Aluminium

C4 Chemical Changes
- Oxidation
- Reactivity series
- Redox HT
- Extraction of metals
- Salts from insoluble bases
- Making salts
- Strong & Weak Acids HT

Respect ▪ Aspiration ▪ Integrity ▪ Compassion