

Organic/Inorganic Chemistry Year 12 Preview Sheet

Exam Board: AQA

Syllabus: 7405

Module 1

Introduction to Organic Chemistry

- Organic Nomenclature
- Isomerism

Alkanes

- Fractional Distillation of Crude Oil, Cracking and the Combustion of Alkanes
- Free Radical Substitution

Module 2

Halogenoalkanes

- Nucleophilic Substitution Reactions
- Elimination Reactions

Alkenes

- Electrophilic Addition
- Addition Polymerisation

Module 3

Alcohols

- Alcohol Production
- Ethanol Production

Required Practical 5: Distillation of a product from a reaction; Ethanol Production

Module 4

Organic Analysis

- Test-tube reactions
- Mass Spectrometry
- Infrared Spectrometry

Required Practical 6: Tests for Alcohol, Aldehyde, Alkene and Carboxylic Acids

Inorganic Chemistry

Periodicity

- The periodic Table
- Trends in the properties of elements of Period 3
- More trends in the properties of the elements of Period 3

Module 5

Group 2, the Alkaline Earth Metals

- The Physical and Chemical Properties of Group 2

Group 7, the Halogens

- The Halogens
- The Chemical Reactions of the Halogens
- Uses of Chlorine

Required Practical 4: Carry out Test Tube Reactions to identify Cations and Anions in Aqueous Solutions; The Alkaline Earth

Module 6

Revision of the year



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