

Organic/Inorganic Chemistry Year 13 Preview Sheet

Exam Board: AQA

Syllabus: 7405

Module 1

Nomenclature & Isomerism

- Naming Organic Compounds
- Reactions of the Carbonyl Group in Aldehydes and Ketones
- Synthesis of Optically Active Compounds

Required Practical 10 - Preparing an Organic Solid - Making Aspirin and Testing for Purity

Compounds Containing the Carbonyl Group

- Reactions of Carbonyl Group in Aldehydes and Ketones
- Reactions of Carboxylic Acid and Esters
- Acylation

Module 2

Aromatic Chemistry

- Arenes - Physical Properties, Naming and Reactivity
- Reactions of Arenes

Amines

- The Properties of Amines as Bases
- Amines as Nucleophiles and their Synthesis

Polymerisation

- Condensation Polymers

Module 3

Amino Acids, Proteins and DNA

- Peptides, Polypeptides and Proteins
- Enzymes, DNA
- The action of Anti-Cancer Drugs

Organic Synthesis and Analysis

- Synthetic Routes
- Organic Analysis

Required Practical 12: Separation of a Species through Thin-Layer

Chromatography: Analysis of the Composition of Some Common Medicines

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 11: Carry out some simple test tube reactions to identify transition metal ions in aqueous solution: An Investigation of Some Transition Metal Compounds

Module 6

Revision of the year



Space Studio West London
an Aspirations Academy