

# CHEMISTRY



*Palma College*

SIXTH FORM

## AS

### **Unit 1: Structure, Bonding and Introduction to Organic Chemistry**

- Formulae writing, equation writing and calculating chemical quantities
- Atomic structure and the Periodic Table
- Understand chemical bonding (ionic, covalent and metallic)
- Alkanes and alkenes

### **Unit 2: Energetics, Group Chemistry, Alcohols and Halogenoalkanes**

- Energetics in Chemistry
- Intermolecular forces
- Periodic table: groups 2 and 7
- Redox reactions in halogens and their compounds
- Rate, direction and extent of chemical change
- Alcohols, halogenoalkanes and spectra

### **Unit 3: Practical Skills in Chemistry I**

The unit covers all practical assessment related to units 1 and 2

**Assessment: Written examinations for all units**

## **Unit 4: Rates, Equilibria and Further Organic Chemistry**

- Kinetics
- Organic reaction mechanisms
- Entropy and energy
- Equilibria related to chemical change
- Carbonyl compounds, carboxylic acids and chirality

## **Unit 5: Transition Metals and Organic Nitrogen Chemistry**

- Electrode potentials
- Redox and transition metals
- Arenes, amines, amides, amino acids and proteins
- Organic synthesis
- This unit draws on all other units within the GCE in Chemistry and students are expected to use their prior knowledge when learning about these areas

## **Unit 6: Practical Skills in Chemistry II**

The unit covers all practical assessment related to units 4 and 5

**Assessment: Written examinations for all units**

**Prerequisites: A good knowledge of the GCSE Chemistry specification is assumed. The knowledge for Units 4 and 5 is built on units 1 and 2**

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