Year 13 Final Exams - Revision Guidance

Circulation	Year 13 Students
Title	Y13 Formal Exams - Revision Guidance
Purpose	To provide revision information for Y13 Formal Exams

You will sit three exams for your final exams in the summer.

Paper 1: Inorganic and Physical Chemistry

3.1 Physical chemistry

- **3.1.1** Atomic structure
- **3.1.2** Amount of substance
- **3.1.3** Bonding
- **3.1.4** Energetics
- **3.1.6** Chemical equilibria, Le Chatelier's principle and Kc
- **3.1.7** Oxidation, reduction and redox equations
- **3.1.8** Thermodynamics (A-level only)
- **3.1.10** Equilibrium constant Kp for homogeneous systems (A-level only)
- **3.1.11** Electrode potentials and electrochemical cells (A-level only)
- **3.1.12** Acids and bases (A-level only)

3.2 Inorganic chemistry

- **3.2.1** Periodicity
- **3.2.2** Group 2, the alkaline earth metals
- **3.2.3** Group 7(17), the halogens
- **3.2.4** Properties of Period 3 elements and their oxides (A-level only)
- **3.2.5** Transition metals (A-level only)
- **3.2.6** Reactions of ions in aqueous solution (A-level only)

Paper 2: Organic and Physical Chemistry

3.3 Organic chemistry

- **3.3.1** Introduction to organic chemistry
- **3.3.2** Alkanes
- **3.3.3** Halogenoalkanes
- **3.3.4** Alkenes
- **3.3.5** Alcohols
- **3.3.6** Organic analysis
- **3.3.7** Optical isomerism (A-level only)
- **3.3.8** Aldehydes and ketones (A-level only)
- **3.3.9** Carboxylic acids and derivatives (A-level only)
- **3.3.10** Aromatic chemistry (A-level only)
- **3.3.11** Amines (A-level only)
- **3.3.12** Polymers (A-level only)
- **3.3.13** Amino acids, proteins and DNA (A-level only)
- **3.3.14** Organic synthesis (A-level only)
- **3.3.15** Nuclear magnetic resonance spectroscopy (A-level only)
- **3.3.16** Chromatography (A-level only)

3.1 Physical chemistry

- **3.1.2** Amount of substance
- **3.1.3** Bonding
- **3.1.4** Energetics
- **3.1.5** Kinetics
- **3.1.6** Chemical equilibria, Le Chatelier's principle and Kc
- **3.1.9** Rate equations (A-level only)

Paper 3: Synoptic Chemistry

3.1 Physical chemistry

- **3.1.1** Atomic structure
- **3.1.2** Amount of substance
- **3.1.3** Bonding
- **3.1.4** Energetics
- **3.1.5** Kinetics
- **3.1.6** Chemical equilibria, Le Chatelier's principle and Kc
- **3.1.7** Oxidation, reduction and redox equations
- **3.1.8** Thermodynamics (A-level only)
- **3.1.9** Rate equations (A-level only)
- **3.1.10** Equilibrium constant Kp for homogeneous systems (A-level only)
- **3.1.11** Electrode potentials and electrochemical cells (A-level only)
- **3.1.12** Acids and bases (A-level only)

3.2 Inorganic chemistry

- **3.2.1** Periodicity
- **3.2.2** Group 2, the alkaline earth metals
- **3.2.3** Group 7(17), the halogens
- **3.2.4** Properties of Period 3 elements and their oxides (A-level only)
- **3.2.5** Transition metals (A-level only)
- **3.2.6** Reactions of ions in aqueous solution (A-level only)

3.3 Organic chemistry

- **3.3.1** Introduction to organic chemistry
- **3.3.2** Alkanes
- **3.3.3** Halogenoalkanes
- **3.3.4** Alkenes
- **3.3.5** Alcohols
- **3.3.6** Organic analysis
- **3.3.7** Optical isomerism (A-level only)
- **3.3.8** Aldehydes and ketones (A-level only)
- **3.3.9** Carboxylic acids and derivatives (A-level only)
- **3.3.10** Aromatic chemistry (A-level only)
- **3.3.11** Amines (A-level only)
- **3.3.12** Polymers (A-level only)
- **3.3.13** Amino acids, proteins and DNA (A-level only)
- **3.3.14** Organic synthesis (A-level only)
- **3.3.15** Nuclear magnetic resonance spectroscopy (A-level only)
- **3.3.16** Chromatography (A-level only)

- Paper 1 – 2 hours – 105 marks of short and long answer questions
- Paper 2 – 2 hours – 105 marks of short and long answer questions
- Paper 3 – 2 hours – 90 marks. 40 marks on practical skills and data analysis, 20 marks of questions from across the specification, 30 marks of multiple choice

- You must answer every question on every paper

You will need a black pen, pencil, ruler and calculator for the exam.

Further detail and revision materials can be found here:
Past Papers: A-Level Chemistry Past Papers - PMT
Revision: AQA A-level Chemistry Revision - PMT