

OXFORD

INTERNATIONAL  
AQA EXAMINATIONS

# AS AND A-LEVEL CHEMISTRY

9620

May/June 2022 Advance Information

---

For use in May/June 2022 only

## INTRODUCTION

This advance information details the focus of the content of the May/June 2022 examinations for the both the AS and A-level qualifications for Chemistry.

The purpose of this information is to support revision. It is provided in the context of the coronavirus (Covid-19) pandemic which has disrupted the education of students sitting exams in May/June 2022.

A guidance document on advance information notice has been produced and it can be found [here](#)

## INFORMATION

- This advance information covers all examined components
- For each paper the list shows the major focus of questions.
- The topic areas are listed in rank order, with the areas carrying the highest mark allocations across the whole paper at the top of each list.
- Assessment of practical skills (section 6.2 of the specification) will occur throughout the five papers but predominantly in CH05.
- Assessment of maths skills (section 7 of the specification) will occur throughout the five papers.
- Topics not explicitly included in the list may appear in low tariff questions or via synoptic questions. Synoptic questions are those that bring together knowledge, skills and understanding from across the specification.
- It is **not** permitted to take this notice into the examination.

## ADVICE

- Students should only refer to the advance information notice for components for which they intend to sit.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in lower mark questions

## SUBJECT SPECIFIC SECTION

### CH01 INORGANIC 1 AND PHYSICAL 1

- 3.1.2 Amount of substance
- 3.1.3 Bonding
- 3.2.2 Group 2, the alkaline earth metals
- 3.1.4 Energetics
- 3.2.3 Group 7, The halogens

### CH02 ORGANIC 1 AND PHYSICAL 1

- 3.1.2 Amount of substance
- 3.1.7 Chemical equilibria, Le Chatelier's principle and  $K_c$
- 3.1.6 Kinetics
- 3.3.3 Halogenoalkanes
- 3.3.1 Introduction to organic chemistry
- 3.3.4 Alkenes

### CH03 INORGANIC 2 AND PHYSICAL 2

- 3.2.5 Transition metals
- 3.1.10 Acids and bases
- 3.1.8 Thermodynamics
- 3.1.9 Electrode potentials and electrochemical cells

### CH04 ORGANIC 2 AND PHYSICAL 2

- 3.1.12 Equilibrium constant  $K_p$  for homogeneous systems
- 3.3.8 Aldehydes and ketones
- 3.3.13 Amino acids and proteins
- 3.3.15 Nuclear magnetic resonance spectroscopy
- 3.3.11 Amines
- 3.1.11 Rate equations
- 3.3.10 Aromatic chemistry

## CH05 PRACTICAL AND SYNOPTIC

- 3.1.11 Rate equations
- 3.2.3 Group 7, the halogens
- 3.1.10 Acids and bases
- 3.3.10 Aromatic chemistry
- 3.1.1 Atomic structure
- 3.1.6 Kinetics

CH05 is the synoptic paper; the topics in it are assessed in combination with each other. Section A of CH05 focuses on the practical and analytical skills outlined in section 6.2 of the specification. Questions relating to these skills are set in the context of experimental work that may not conform exactly to activities listed in the specification, whether in section 3 (Subject Content) or section 6 (Practical Assessment). In such cases, full details of the activity will be provided as appropriate. The specification areas noted above, as they apply to Section A, provide as close a match as possible to the question contexts.

**END OF ADVANCE INFORMATION**



**OXFORD INTERNATIONAL AQA EXAMINATIONS**  
GREAT CLARENDON STREET, OXFORD, OX2 6DP  
UNITED KINGDOM

[enquiries@oxfordaqaexams.org.uk](mailto:enquiries@oxfordaqaexams.org.uk)  
[oxfordaqaexams.org.uk](http://oxfordaqaexams.org.uk)