

# Pearson Edexcel International GCSE (9–1)

May–June 2022 Assessment Window

Syllabus  
reference

4CH1

## Chemistry Advance Information

You are not permitted to take this notice into the examination.  
This document is valid if downloaded from the [Pearson Qualifications website](#).

### Instructions

- Please ensure that you have read this notice before the examination.

### Information

- This notice covers all examined components.
- The format/structure of the assessments remains unchanged.
- This advance information notice details the focus of the content of the exams in the May-June 2022 assessments.
- There are no restrictions on who can use this notice.
- This notice is meant to help students to focus their revision time.
- Students and teachers can discuss the advance information.
- It is **not** permitted to take this notice into the exam.
- This document has 5 pages.

There are two option codes for this qualification. Some centres will enter for option "R", depending on their location – if you're unsure if your centre uses option "R" papers you should contact your centre who can confirm and check the [Information Manual](#). Please ensure you consult the advance information relevant to the option code used within your centre. Information related to the "R" option is indicated by an "R" after the paper number, e.g. 4CH1/2CR or Paper 2CR.

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## General advice

- In addition to covering the content outlined in the advance information, students and teachers should consider how to:
  - manage their revision of parts of the specification which may be assessed in areas not covered by the advance information.
  - manage their revision of other parts of the specification which may provide knowledge that helps with understanding the areas being tested in 2022.
- For specifications with synoptic questions, topics not explicitly given in the advance information may appear, e.g. where students are asked to bring together knowledge, skills and understanding from across the specification.
- For specifications with optional papers/topics/content, students should only refer to the advance information for their intended option.
- For specifications with NEA, advance information does not cover any NEA components.

A link to the Joint Council for Qualifications guidance document on advance information can be found on the Joint Council for Qualifications website or [here](#).

## Advance Information

### Subject specific section

- For each paper the list shows the major focus of the content of the exam.
- Topics **not** assessed either directly or synoptically have also been listed.
- The information is presented in specification order and not in question order.
- Numbers in brackets refer to the points as listed in the specification.
- Each exam paper may include some, or all, of the content in the listed topic.
- Assessment of practical skills, maths skills, and Working Scientifically skills will occur throughout all the papers.
- Core practicals that will be assessed have also been listed.
- Topics not explicitly given in any list may appear in low tariff questions or via synoptic or 'linked' questions. Synoptic or 'linked' questions are those that bring together knowledge, skills and understanding from across the specification.
- Students will still be expected to apply their knowledge to unfamiliar contexts.

### Paper 4CH1/1C

- Topic 1a States of matter (1.1 – 1.4)
- Topic 1c Atomic structure (1.14 – 1.17)
- Topic 1e Chemical formulae, equations and calculations (including practical 1.36) (1.25 – 1.33, 1.36)
- Topic 1g Covalent bonding (1.44 – 1.51)
- Topic 2c Gases in the atmosphere (2.9 – 2.14)
- Topic 2h Chemical tests (2.44 – 2.50)
- Topic 3b Rates of reaction (3.9 – 3.13)
- Topic 4b Crude oil (4.7 – 4.18)
- Topic 4c Alkanes (4.19 – 4.22)

Topics **not assessed** in this paper:

- Topic 2a Group 1 (2.1 – 2.4C)
- Topic 2b Group 7 (2.5 – 2.8C)
- Topic 3a Energetics (3.1 – 3.8)
- Topic 3c Reversible reactions and equilibria (3.17 – 3.22C)
- Topic 4h Synthetic polymers (4.44 – 4.50C)

### Paper 4CH1/2C

- Topic 1e Chemical formulae, equations and calculations (1.25 – 1.36)
- Topic 1i Electrolysis (1.55C – 1.60C)
- Topic 2b Group 7 (2.5 – 2.8C)
- Topic 2c Gases in the atmosphere (2.9 – 2.14)
- Topic 2e Extraction and uses of metals (2.22C – 2.27C)
- Topic 2f Acids, alkalis and titrations (2.28 – 2.33C)
- Topic 2h Chemical tests (2.44 – 2.50)
- Topic 3a Energetics (including practical 3.8) (3.1 – 3.8)
- Topic 4f Carboxylic acids (4.34C – 4.37C)
- Topic 4h Synthetic polymers (4.44 – 4.50C)

Topics **not assessed** in this paper:

- Topic 1a States of matter (1.1 – 1.7C)
- Topic 1b Elements, compounds and mixtures (1.8 – 1.13)
- Topic 1c Atomic structure (1.14 – 1.17)
- Topic 1g Covalent bonding (1.44 – 1.51)
- Topic 2a Group 1 (2.1 – 2.4C)
- Topic 2d Reactivity series (2.15 – 2.21)
- Topic 3b Rates of reaction (3.9 – 3.16)
- Topic 4a Organic chemistry introduction (4.1 – 4.6)
- Topic 4d Alkenes (4.23 – 4.28)
- Topic 4e Alcohols (4.29C – 4.33C)

### Paper 4CH1/1CR

- Topic 1b Elements, compounds and mixtures (including practical 1.13) (1.8 – 1.13)
- Topic 1c Atomic structure (1.14 – 1.17)
- Topic 1e Chemical formulae, equations and calculations (including practical 1.36) (1.25 – 1.33, 1.36)
- Topic 1f Ionic bonding (1.37 – 1.43)
- Topic 1g Covalent bonding (1.44 – 1.51)
- Topic 3a Energetics (3.1 – 3.4, 3.8)
- Topic 3b Rates of reaction (3.9 – 3.13, 3.15 – 3.16)
- Topic 4b Crude oil (4.7 – 4.18)

Topics **not assessed** in this paper:

- Topic 1a States of matter (1.1 – 1.7C)
- Topic 2b Group 7 (2.5 – 2.8C)
- Topic 2f Acids, alkalis and titrations (2.28 – 2.33C)
- Topic 2g Acids, bases and salt preparations (2.34 – 2.43C)
- Topic 3c Reversible reactions and equilibria (3.17 – 3.22C)
- Topic 4c Alkanes (4.19 – 4.22)
- Topic 4d Alkenes (4.23 – 4.28)

### Paper 4CH1/2CR

- Topic 1c Atomic structure (1.14 – 1.17)
- Topic 1e Chemical formulae, equations and calculations (1.25 – 1.36)
- Topic 1h Metallic bonding (1.52C – 1.54C)
- Topic 1i Electrolysis (including practical 1.60C) (1.55C – 1.60C)
- Topic 2f Acids, alkalis and titrations (2.28 – 2.33C)
- Topic 2g Acids, bases and salt preparations (2.34 – 2.43C)
- Topic 3a Energetics (3.1 – 3.8)
- Topic 3c Reversible reactions and equilibria (3.17 – 3.22C)
- Topic 4e Alcohols (4.29C – 4.33C)
- Topic 4g Esters (4.38C – 4.43C)

Topics **not assessed** in this paper:

- Topic 1b Elements, compounds and mixtures (1.8 – 1.13)
- Topic 1g Covalent bonding (1.44 – 1.51)
- Topic 2a Group 1 (2.1 – 2.4C)
- Topic 2b Group 7 (2.5 – 2.8C)
- Topic 2c Gases in the atmosphere (2.9 – 2.14)
- Topic 4d Alkenes (4.23 – 4.28)
- Topic 4h Synthetic polymers (4.44 – 4.50C)

**END OF ADVANCE INFORMATION**