

### Chemistry Revision List Year 11 Mock 1

**Exam information:** Students in Year 11 are split into the Separate Science and Combined (Trilogy) Science pathway and will sit 3 combined science exams- one for Biology, one for Chemistry and one for Physics.

**Sets: R, A, P and H**

**Written exam:** 1 hour 15 minutes

**Exam Board:** AQA Combined Science.

**Marks:** 70 marks

**Questions:** A mixture of multiple choice, structured, closed short answer, and open response.

**Additional Information:** A Periodic Table will be provided.

You need to bring a calculator to your exam.

This exam will cover some topics from Year 11, Year 10 and some from Year 9

There is a higher and foundation tier available

Combined: (Topics 8-12 on this link)

<https://www.aqa.org.uk/subjects/science/gcse/science-8464/specification/specification-at-a-glance>

**Sets: G**

**Written exam:** 1 hour 45 minutes

**Exam Board:** AQA Separate Science.

**Marks:** 100 marks

**Questions:** A mixture of multiple choice, structured, closed short answer, and open response.

**Additional Information:** A Periodic Table will be provided.

You need to bring a calculator to your exam.

This exam will cover some topics from Year 11, Year 10 and some from Year 9

Separates:

<https://www.aqa.org.uk/subjects/chemistry/gcse/chemistry-8462/specification/specification-at-a-glance>

| Topic                                            |                                                                                                                          | Revised ? |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------|
| Atomic structure and the periodic table          | Elements, Compounds and Mixtures – including Separating Mixtures                                                         |           |
|                                                  | The development of the model of the atom                                                                                 |           |
|                                                  | The Structure of the Atom – including relative charges and masses of the sub-atomic particles and Electron Configuration |           |
|                                                  | Isotopes                                                                                                                 |           |
|                                                  | The structure and development of the Periodic table                                                                      |           |
|                                                  | Group 1, 7 and 0 trends                                                                                                  |           |
| Bonding, structure, and the properties of matter | Ionic Bonding and Properties of Ionic Compounds                                                                          |           |
|                                                  | Covalent Bonding and Properties of Covalent Molecules (including polymers)                                               |           |
|                                                  | Metallic Bonding and Properties of Metals                                                                                |           |
|                                                  | The 3 states of matter and how bonding links to melting and boiling points                                               |           |
|                                                  | Giant Covalent structures including Graphite, Diamond, Graphene and Fullerenes                                           |           |
|                                                  | Nanoparticles and their uses                                                                                             |           |
| Quantitative chemistry                           | Conservation of Mass and Balanced Symbol Equations                                                                       |           |
|                                                  | Relative Formula Mass                                                                                                    |           |
|                                                  | Concentration                                                                                                            |           |
|                                                  | Moles Calculations – HIGHER                                                                                              |           |
|                                                  | Amounts of Substance in a balance equation – HIGHER                                                                      |           |
|                                                  | Percentage Yield and Atom Economy – SEPS ONLY                                                                            |           |
|                                                  | Using moles in equations with gases – SEPS ONLY                                                                          |           |
|                                                  | Titration – Practical and Calculations – SEPS ONLY                                                                       |           |
| Chemical changes                                 | The Reactivity Series                                                                                                    |           |
|                                                  | Reduction of Metals and Extraction                                                                                       |           |
|                                                  | Reaction of Acids with metals                                                                                            |           |
|                                                  | The pH scale and Neutralisation                                                                                          |           |
|                                                  | Making Salts                                                                                                             |           |
|                                                  | Strong and Weak Acids - HIGHER                                                                                           |           |
|                                                  | Electrolysis of Molten Solids                                                                                            |           |
|                                                  | Electrolysis of aqueous Solutions                                                                                        |           |

|                |                                   |  |
|----------------|-----------------------------------|--|
| Energy changes | Exothermic and Endothermic        |  |
|                | Reaction Profiles                 |  |
|                | Bond Energy Calculations - HIGHER |  |
|                | Fuel Cells – SEPS ONLY            |  |

### Revision Links

Free science lessons ([AQA GCSE Chemistry Paper 1 Atomic Structure and the Periodic Table - YouTube](#))  
 Quizlet (<https://quizlet.com/en-gb/content/aqa-gcse-chemistry-flashcards>)  
 BBC Bitesize (<https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb>) – Seps  
 (GCSE Combined Science - AQA Trilogy - BBC Bitesize) - Combined  
 Physics and Maths Tutor (<https://www.physicsandmathstutor.com/chemistry-revision/gcse-aqa>)  
 Kerboodle (<https://www.kerboodle.com>)  
 Seneca (<https://senecalearning.com/en-GB>)  
 Cognito ([Cognito - YouTube](#))