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| **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 | |  |
| Titrations – 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](https://www.youtube.com/playlist?list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1))  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](https://www.bbc.co.uk/bitesize/examspecs/z8r997h)) - Combined  Physics and Maths Tutor (<https://www.physicsandmathstutor.com/chemistry-revision/gcse-aqa>)  Kerboodle ([https://www.kerboodle.com](https://www.kerboodle.com/))  Seneca (<https://senecalearning.com/en-GB>)  Cognito ([Cognito - YouTube](https://www.youtube.com/c/Cognitoedu/videos)) | | | |