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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 availableCombined: (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)) - CombinedPhysics 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)) |