



Year 9 Syllabus in a nutshell

CHEMISTRY





Year 9 Syllabus in a nutshell – Chemistry

This list summarises all the work covered during Year 9 during the academic year September 2019 to June 2020 in preparation for the GCSE exam to be taken in May/June 2022.

Below are the main topic numbers, headings and sub-headings with textbook references*. For further information, go to the **Year 9 pages on Firefly** (<https://intranet.tauntonschool.co.uk/chemistry/year-9-gcse-chemistry>) and use the menu to find the pages for each topic. This has a **summary sheet** outlining the detail of what needs to be learnt for that topic. There are also links to Quizlets for **key words**, as well as various other useful revision websites and videos.

| | | |
|-----------|---|------------------|
| 0 | Working scientifically | |
| | Definitions used when designing investigations | 9-10 |
| 1 | Chemical Fundamentals | |
| | Elements, compounds, symbols, formulae, chemical equations | 24-25, 29-33 |
| | States of matter | 97-101 |
| 2 | Atomic Structure | |
| | The development of the model of the atom (also taught in Physics Y10) | 42-43 |
| | Size of atoms, sub-atomic particles, relative atomic mass | 22-23, 25, 27-28 |
| | Electronic structure | 44-45 |
| 3 | The Periodic Table | |
| | Development of the periodic table, arrangements of elements | 50-53 |
| | Metals and non-metals | 54-55 |
| | The alkali metals, the halogens and the noble gases | 56-65 |
| 4 | Chemical Measurements | |
| | Mass changes in chemical reactions | 108-110 |
| | Uncertainty in measurements | 14-15 |
| 5 | Chemical Purity (normally covered in Year 9, but postponed) | |
| 6 | The Chemistry of the Atmosphere | |
| | Identification of common gases | 203 |
| | The proportions of different gases in the Earth's atmosphere | 206 |
| | The early atmosphere, how oxygen and carbon dioxide changed | 206-208 |
| | Combustion of fuels and pollutants | 214-215 |
| | Greenhouse gases, climate change, reducing the carbon footprint | 209-213 |
| 16 | Using Resources (first part of this topic, which will be completed in Year 11) | |
| | Natural resources, finite resources and sustainable development | 218-219 |

*Page references are for the CGP textbook 'GCSE AQA Combined Science Chemistry'