



Year 10 Syllabus in a nutshell

CHEMISTRY





Year 10 Syllabus in a nutshell – Chemistry (combined Science)

This list summarises all the work covered during Year 10 during the academic year September 2019 to June 2020 in preparation for the GCSE exam to be taken in May/June 2021.

Below are the main topic numbers, headings and sub-headings with textbook references*. For further information, go to the **Year 10 pages on Firefly** (<https://intranet.tauntonschool.co.uk/chemistry/year-10-gcse-combined-science>) 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.

7 Bonding and Structure

Metallic, ionic and covalent bonding,	90-91, 70-77, 78-80
Simple molecular and giant covalent substances	81-86
Allotropes of carbon – diamond, graphite, graphene and fullerenes	87-89

8 Reactivity of Metals

The reactivity series and reactions of metals	133-136
Metal oxides and extraction of metals	162-163
Alternative methods of extracting metals	220

9 Quantitative Chemistry

Relative formula mass, moles, equations, limiting reactants	104-107, 111-117
Concentration of solutions in g/dm ³	118-120

6 The Chemistry of the Atmosphere (continued from the end of Year 9)

Combustion of fuels and pollutants	214-215
Greenhouse gases, climate change, reducing the carbon footprint	209-213

16 Using Resources

Natural resources, finite resources and sustainable development	218-219
Water purification to give potable water, waste water treatment	226-229
Reducing resources, life cycle assessment	222-225

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