

Changes in AQA GCSE Chemistry

Comparison of draft AQA science specifications with current AQA science specifications: Chemistry units C1, C2 and C3

Unit	New content/new emphases	Content transferred in from a different unit	Content transferred out to a different unit	Content removed (and not referenced in any of the units)
C1	<ul style="list-style-type: none"> Extraction of copper by phytomining, bioleaching and displacement Use of phytomining to recover metals from contaminated sites Biofuels Biodegradable polymers Production of ethanol by fermentation Use of vegetable oils in cooking Hydrophobic and hydrophilic properties of emulsifiers Chemical theories for the origins of life Absorption of carbon dioxide by the oceans Fractional distillation of liquid air 	<ul style="list-style-type: none"> Charges on protons, neutrons and electrons and atom neutrality (from C2) Difference between elements in terms of proton numbers (from C2) Electronic structure of atoms and relationship with the periodic table (from C2) Reaction of carbonates with acid and use of limewater to detect for carbon dioxide (from C3) 	<ul style="list-style-type: none"> Alloy properties in terms of their structure and bonding (to C2) Reactants and reaction conditions affecting polymer properties (to C2) Analysis of food additives (to C2) 	<ul style="list-style-type: none"> Use of food additives Uses of noble gases
C2	<ul style="list-style-type: none"> Formulae of ionic compounds Fullerenes Thermosoftening and thermosetting polymers Electroplating Extraction of aluminium 	<ul style="list-style-type: none"> Alloy properties in terms of their structure and bonding (from C1) Reactants and reaction conditions affecting polymer properties (from C1) Analysis of food additives (from C1) Instrumental methods for chemical analysis (gas chromatography and mass spectrometry) (from C3) 	<ul style="list-style-type: none"> Charges on protons, neutrons and electrons and atom neutrality (to C1) Difference between elements in terms of proton numbers (to C1) Electronic structure of atoms and relationship with the periodic table (to C1) Effects of changing conditions on equilibria (to C3) Haber process (to C3) 	<ul style="list-style-type: none"> Atom economy
C3	<ul style="list-style-type: none"> Distinction between temporary and permanent hard water Fluoride in drinking water Hydrogen as a fuel (combustion and fuel cells) Alcohols, carboxylic acids and esters 	<ul style="list-style-type: none"> Effects of changing conditions on equilibria (from C2) Haber process (from C2) 	<ul style="list-style-type: none"> Reaction of carbonates with acid and use of limewater to detect for carbon dioxide (to C1) Instrumental methods for chemical analysis (gas chromatography and mass spectrometry) (to C2) 	<ul style="list-style-type: none"> Electronic structure of transition metals Acid-base theory Strength of acids and alkalis Titrations involving weak acids or weak alkalis Water cycle Solubility of solutes and gases Tests for ammonium and nitrate ions Identification of organic compounds