Granville Academy



GCSE Revision Topics 2017 - 2019 Chemistry Combined Higher

Торіс	Tick/date when revised							
C1 Atomic Structure								
C1.1 Atoms								
C1.2 Chemical equations								
C1.3 Separating mixtures								
C1.4 Fractional distillation and paper chromatography								
C1.5 History of the atom								
C1.6 Structure of the atom								
C1.7 lons, atoms, and isotopes								
C1.8 Electronic structures								
C2 The Periodic Table								
C2.1 Development of the periodic table								
C2.3 Group 1 – the alkali metals								
C2.4 Group 7 – the halogens								
C2.5 Explaining trends								
C3 Structure and Bonding								
C3.1 States of matter								
C3.2 Atoms into ions								



C3.3 Ionic bonding							
C3.4 Giant ionic structures							
C3.5 Covalent bonding							
C3.6 Structure of simple molecules							
C3.7 Giant covalent structures							
C3.8 Fullerenes and graphene							
C3.9 Bonding in metals							
C3.10 Giant metallic structures							
C4 Chemical Calculations							
C4.1 Relative masses and moles							
C4.2 Equations and calculations							
C4.3 From masses to balanced equations							
C4.6 Expressing concentrations							
C5 Chemical Changes							
C5.1 The reactivity series							
C5.2 Displacement reactions							
C5.3 Extracting metals							
C5.4 Salts from metals							
C5.6 Making more salts							
C5.7 Neutralisation and the pH scale							
C5.8 Strong and weak acids							

C6 Electrolysis								
C6.1 Introduction to electrolysis								
C6.2 Changes at the electrodes								
C6.3 The extraction of aluminium								
C6.4 Electrolysis of aqueous solutions								
C7 Energy Changes								
C7.1 Exothermic and endothermic reactions								
C7.2 Using energy transfers from reactions								
C7.3 Reaction profiles								
C7.4 Bond energy calculations								
C8 Rates and Equilibrium								
C8.1 Rate of reaction								
C8.2 Collision theory and surface area								
C8.3 The effect of temperature								
C8.4 the effect of concentration and pressure								
C8.5 The effect of catalysts								
C8.6 Reversible reactions								
C8.7 Energy and reversible reactions								
C8.8 Dynamic equilibrium								
C8.9 Altering conditions								
C9 Crude Oil and Fuels								

C9.1 Hydrocarbons							
C9.2 Fractional distillation of oil							
C9.3 Burning hydrocarbon fuels							
C9.4 Cracking hydrocarbons							
C12 Chemical Analysis							
C12.1 Pure substances and mixtures							
C12.2 Analysing chromatograms							
C12.3 Testing for gases							
C13 The Earth's Atmosphere							
C13.1 History of our atmosphere							
C13.2 Our evolving atmosphere							
C13.3 Greenhouse gases							
C13.4 Global climate change							
C13.5 Atmospheric pollutants							
C14 The Earth's Resources							
C14.1 Finite and renewable resources							
C14.2 Water safe to drink							
C14.3 Treating waste water							
C14.4 Extracting metals from ores							
C14.5 Life cycle assessments							
C14.6 Reduce, reuse and recycle							