



Granville  
Sports College



## GCSE Revision Topics 2016 - 2018

### Subject – Chemistry Combined Foundation

Topic	Tick/date when revised				
<b>C1 Atomic Structure</b>					
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 Ions, atoms, and isotopes					
C1.8 Electronic structures					
<b>C2 The Periodic Table</b>					
C2.1 Development of the periodic table					
C2.3 Group 1 – the alkali metals					
C2.4 Group 7 – the halogens					
C2.5 Explaining trends					

<b>C3 Structure and Bonding</b>					
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					
<b>C4 Chemical Calculations</b>					
C4.1 Relative masses and moles					
C4.6 Expressing concentrations					
<b>C5 Chemical Changes</b>					
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					
<b>C6 Electrolysis</b>					
C6.1 Introduction to electrolysis					
C6.2 Changes at the electrodes					
C6.3 The extraction of aluminium					
C6.4 Electrolysis of aqueous solutions					
<b>C7 Energy Changes</b>					
C7.1 Exothermic and endothermic reactions					
C7.2 Using energy transfers from reactions					
C7.3 Reaction profiles					
<b>C8 Rates and Equilibrium</b>					
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					
<b>C9 Crude Oil and Fuels</b>					
C9.1 Hydrocarbons					
C9.2 Fractional distillation of oil					
C9.3 Burning hydrocarbon fuels					
C9.4 Cracking hydrocarbons					
<b>C12 Chemical Analysis</b>					
C12.1 Pure substances and mixtures					
C12.2 Analysing chromatograms					
C12.3 Testing for gases					
<b>C13 The Earth's Atmosphere</b>					
C13.1 History of our atmosphere					
C13.2 Our evolving atmosphere					
C13.3 Greenhouse gases					
C13.4 Global climate change					
C13.5 Atmospheric pollutants					
<b>C14 The Earth's Resources</b>					
C14.1 Finite and renewable resources					
C14.2 Water safe to drink					

C14.3 Treating waste water					
C14.5 Life cycle assessments					
C14.6 Reduce, reuse and recycle					