



KS4 Chemistry Homework

AQA Higher Tier Trilogy



Create a set of revision notes for the topic that is stated.
Your teacher will provide you with an exam question on that topic during lesson when the homework is complete.

Date set	Topic	CGP Revision guide page number	Evidence
C1 – Atomic structure and the periodic table			
	Atoms, elements and compounds	96-98	
	Chemical equations	99	
	Mixtures and chromatography	100	
	More separation techniques	101	
	Distillation	102	
	The history of the atom	103	
	Electronic structure	104	
	Development of the periodic table	105 & 106	
	Metals and non-metals	107	
	Group 1	108	
	Group 7	109	
	Group 0	110	
C2 – Bonding, structure and properties of matter			
	Formation of ions	112	
	Ionic bonding	113	
	Ionic compounds	114	
	Covalent bonding	115	
	Simple molecular substances	116	
	Polymers and giant covalent structures	117	
	Allotropes of carbon	118	
	Metallic bonding	119	
	States of matter and changing state	120 & 121	

C3 – Quantitative chemistry			
	Relative formula mass	123	
	The mole	124	
	Conservation of mass	125	
	The mole and equations	126	
	Limiting reactants	127	
	Concentrations of solutions	128	
C4 – Chemical changes			
	Acids and bases	129	
	Strong & weak acids	130	
	Reactions of acids	131	
	The reactivity series	132	
	Separating metals from metal oxides	133	
	Redox reactions	134	
	Electrolysis	135-136	
C5 – Energy changes			
	Exothermic & endothermic reactions	138-139	
	Bond energies	140	
C6 – The rate and extent of chemical change			
	Rates of reaction & factors affecting rates of reaction	142-143	
	Measuring rates of reaction	144	
	Rates experiments	145	
	Finding reaction rates from graphs	146	
	Reversible reactions	147	
	Le Chatelier's principle	148	
C7 – Organic chemistry			
	Hydrocarbons	150	
	Fractional distillation	151	
	Uses and cracking of crude oil	152	
C8 – Chemical analysis			
	Purity & Formulations	153	
	Paper chromatography	154	
	Test for gases	155	
C9 – Chemistry of the atmosphere			

	The evolution of the atmosphere	157	
	Greenhouse gases & climate changes	158	
	Carbon footprint & air pollution	159-160	
C10 – Using resources			
	Finite & renewable resources	161	
	Reuse & recycling	162	
	Life cycle assessments	163	
	Potable water	164	
	Waste water treatment	165	

If you do not have the CPG book then you can find similar material on Kerboodle and Bitesize.