

Combined Science GCSE – Chemistry Paper 3 Higher

My Minimum Target Grade:

The grade I really want:

Topic/Objective	Rating (☺, ☹ or ☹)	Revised (☺, ☹ or ☹)
1 Atomic Structure and the periodic table		
Fully describe the structure of atoms and isotopes and calculate atomic and mass numbers.		
Fully describe the reactions of elements in the periodic table.		
Fully describe the structure of elements in the periodic table including similarities and differences between those in different groups.		
Fully describe the similarities and differences between mixtures and compounds and how mixtures are separated.		
Progress Check: ____ % How I will improve:		
2 Bonding, structure and the properties of matter		
Fully describe in the structure and properties of ionic substances		
Fully describe the structure and properties of molecular substances		
Fully describe the structure and properties of giant covalent substances		
Fully describe the structure and properties of metallic substances		
Fully describe the advances in nanoscience and the uses of nanoparticles		
Fully describe the structure and properties of the different forms of carbon		
3 Quantitative Chemistry		
Fully calculate relative masses and moles.		
Fully describe the conservation of mass in chemical reactions.		
Calculate reacting masses		
Calculate the concentration of solutions		
Progress Test: ____ % How I will improve:		
5 Energy Changes		
Fully describe the differences between exothermic and endothermic reactions		
4 Chemical Changes		
Fully describe the reactions of metals with water, acids and the air including the reactivity series		
Fully describe how metals are extracted		
Fully describe the reaction of acids with alkalis, metals, metal hydroxides, oxides and carbonates.		
Fully describe how salts are formed		
Progress Test: ____ % How I will improve:		
Fully describe the process of electrolysis		
Fully describe the extraction of Al		
Exam: ____ % How I will improve:		

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