

GCSE Chemistry (Triple Science = students that chose to take science as an option)

			Term 1		Term 2		Term 3	
			Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
10	Triple Science	Theme	Chemical Changes		Energy Changes	Rate and Extent of Chemical Change		Quantitative Chemistry
		Concept	Behaviour of Acids	Extracting Metals		Rate of Chemical Change	Extent of Chemical Change	
		Skills Knowledge	Reactions of acids with metals and metal compounds	Displacement reactions	Temperature changes during reactions	Collision theory	Dynamic equilibrium	Conservation of mass
			Making pure, dry crystals of soluble salts	Electrolysis of molten substances	Energy profile diagrams	Calculating the rate of reaction	Le Chatelier's principle	Relative formula mass
			Strong and weak acids	Electrolysis of aqueous solutions	Energy change calculations	Factors affecting the rate of reaction:		The mole
Wider Curriculum	pH Scale		Fuel cells	• Temperature • Concentration • Surface Area • Pressure • Catalyst		Reacting masses		
11	Triple Science	Theme	Earth's Resources	Chemical Analysis	Earth's Atmosphere	Organic Chemistry		
		Concept						
		Skills Knowledge	Potable water	Separating mixtures:	Development of the Earth's atmosphere	Crude oil and fractional distillation	Structure and properties of alcohols	
			Rusting	• Filtration • Distillation • Chromatography	Composition of the atmosphere	Structure and properties of alkanes	Structure and properties of carboxylic acids	
			Haber Process	Testing for ions	Greenhouse effect	Cracking	Formation of esters	
Wider Curriculum	Fertilisers	Testing for gases	Atmospheric pollutants and their impact:	Structure and properties of alkenes	Condensation polymerisation			
				• Carbon particulates • Carbon monoxide • Carbon dioxide • Nitrogen oxides • Sulfur dioxide	Addition polymerisation			