Chemistry - Triple Foundation

Topic Paper	Content
(Paper 1 and 2)	Naming formula & compounds
	State symbols
	balanced symbol equation
	Word equations
	Equipment
	Testing for gases
SC3/4 – Atomic	Atomic structure
structure	Electronic configuration
(Paper 1 and 2)	Protons, neutrons and electrons
	Isotopes
SC5/6 - Bonding	Covalent bonding,
(1 and 2)	Dot and cross diagrams
	Chemical formula
	Giant structures
SC7 – Types of	Properties of metals
substances	Conduction of electricity
(Paper 1 and 2)	
SC9 – Calculations	Conservation of mass
(Paper 2)	
SC14 – Quantitative	Rates of reactions & the factors that affect the rate of reaction
analysis	Concentration
(Paper 2)	
SC17/18/19 – Groups /	Group 1 reactivity
rates of reaction / heat	Group 7 and their properties
energy	Rates of reaction
(Paper 2)	Factors affecting rate of reaction
	Exothermic changes
	Temperature change
SC20/21 – Fuels /	Earth's atmosphere & the changes in Earth's atmosphere.
Earths atmosphere	Climate change
(Paper 2)	Combustion
SC22/23/24 -	Alkanes and alkenes
Hydrocarbons /	Polymers, structure & properties
Alcohols / Polymers	
(Paper 2)	
SC25/26 – Qualitative	Flame tests
analysis	Test for ions
(Paper 2)	Practical – identifying ions
	Particle size

Surface area : Volume ratio

Chemistry - Triple Higher

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SC22/23/24 – Hydrocarbons / Alcohols / Polymers (Paper 2)	Hydrocarbons & formulas Alkanes and alkenes Polymers, structure & properties & uses
SC25/26 – Qualitative analysis (Paper 2)	Flame tests Test for ions Practical – identifying ions Particle size / nanoparticles Surface area : Volume ratio