

Year 10 TRIPLE - Chemistry Name:

Sept - Oct	<ul style="list-style-type: none"> • Ions / ionic bonding / properties • Covalent bonding • Molecular compounds • Allotropes of carbon – diamond / graphite / fullerenes / graphene • Metallic bonding • Bonding models (ionic, covalent, metallic) • Acids and indicators • Concentration of acids
Nov - Dec	<ul style="list-style-type: none"> • Bases and salts Core practical 3 • Neutralisation Core practical 2 • Titration • Making soluble salts • Making insoluble salts • Mass calculations (relative mass -M_r) • Empirical formula • Conservation of mass • Mole calculations • Reactivity of metals • Displacement reactions
Jan - Feb	<ul style="list-style-type: none"> • Extraction of metals – carbon / electrolysis / biological • Corrosion and oxidation • Recycling and lifecycle assessments • Electrolysis of copper sulphate Core practical 4 • Products of electrolysis • Transition metals • Corrosion • Sacrificial protection • Electroplating
Feb - March	<ul style="list-style-type: none"> • Alloying • Reversible reactions • Fertilisers • Haber process • Factors affecting equilibrium • % Yield and Atom Economy
April - May	<ul style="list-style-type: none"> • Concentration calculations • Titrations • Molar gas volumes • Chemical and fuel cells • Group 1 – Alkali metals
June – July	<ul style="list-style-type: none"> • Group 7 – Halogens • Group 0 – Noble gases • Exo and Endothermic Reactions • Reaction Profiles • Bond Energy Calculations

Test 1 – (Bonding) Test 2 – (Acids and calculations) Test 3 (Electrolysis, metals, transition metals and alloys) Test 4 – _ Reversible Reactions Test 5 Quantitative analysis and Fuel Cells

YEAR 10 EXAM

Year 11 TRIPLE - Chemistry Name:

Sept - Oct	<ul style="list-style-type: none">• Rates of reaction• Factors affecting rates of reaction• Core Practical 6• Catalysts and activation energy• Exothermic and endothermic reactions• Reaction profiles• Bond energy calculations	
Nov - Dec	<ul style="list-style-type: none">• Crude oil• Fractional distillation• Alkanes• Combustion of fuels• Cracking• Early and modern atmosphere	
Jan - Feb	<ul style="list-style-type: none">• Climate change• Alkanes and alkenes• Ethanol production• Alcohols Practical 8	Core
Feb - March	<ul style="list-style-type: none">• Flame tests Practical 7a	Core
	<ul style="list-style-type: none">• Identifying ions& c• Reactions of carboxylic acids• Polymers	Core Practical 7b
April - May	<ul style="list-style-type: none">• Choosing materials	
Test 1 Groups and Energy Changes Test 2 Quantitative Chemistry & Chemical Cells Test 3 Fuels and Earth & Atmosphere Test 4 Organic Chemistry		
MOCK 1 MOCK 2		