Year 10 TRIPLE - Chemistry Name:	
Sept - Oct	• Elements and the periodic table • Electron arrangements • Ions / ionic bonding / properties • Covalent bonding • Molecular compounds • Allotropes of carbon – diamond / graphite / fullerenes / graphene • Metallic bonding
Nov - Dec	• Bonding models (ionic, covalent, metallic) • Acids and indicators • Concentration of acids • 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
Jan - Feb	• Conservation of mass • Mole calculations • Reactivity of metals • Displacement reactions • Extraction of metals – carbon / electrolysis / biological • Corrosion and oxidation • Recycling and lifecycle assessments
Feb - March	• Electrolysis of copper sulphate Core practical 4 • Products of electrolysis • Transition metals • Corrosion • Sacrificial protection • Electroplating • Alloying
April - May	• Reversible reactions • Fertilisers • Haber process • Factors affecting equilibrium • % Yield and Atom Economy • Concentration calculations • Titrations • Molar gas volumes
June – July	• Chemical and fuel cells • Group 1 – Alkali metals • Group 7 – Halogens • Group 0 – Noble gases
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	• Chemical and fuel cells • % Yield and Atom Economy • Concentration calculations • Titrations • Molar gas volumes
Nov - Dec	• Crude oil • Fractional distillation • Alkanes • Combustion of fuels • Cracking • Early and modern atmosphere
Jan - Feb	• Climate change • Alkanes and alkenes • Ethanol production • Alcohols Core Practical 8
Feb - March	• Flame tests Core Practical 7a • Identifying ions Core Practical 7b & c • Reactions of carboxylic acids • Polymers
April - May	• Choosing materials
Test 1 Groups and Energy Changes Test 2 Quantitative Chemistry & Chemical Cells Test 3 Fuels and Earth & Atmosphere Test 4 Organic Chemistry	
Y11 interim exams	