Long Term Plan Subject: AQA Chemistry YEAR 12

Term	Topic(s)	Assessed work	Additional details
1 a 7 weeks 42 lessons	Atomic/electronic structure, bonding Isotopes, atom economy and percentage yield Ionisation enthalpy, shapes of molecules and electronegativity Moles, Ideal gas law Mass Spectrometry, empirical formulae Period 3 trends, Titration required practical Group 2 properties Test tube cations and anions required practical	50 mark test w/b 1st Nov	
1b 7 weeks 42 lessons	Enthalpy changes, alkanes and fractional distillation Exothermic and endothermic reactions, combustion and cracking Hess' law, alkenes Enthalpy changes required practical, haloalkanes Bond enthalpies, addition polymers Maxwell-Boltzmann distribution	50 mark test w/b 10th Jan	
2a 7 weeks 42 lessons	Rates of reaction required practical, redox Equibria, reactions of halogens Kc, ethanol production		
2b 5 weeks 30 lessons	Isomerism, reactions of alcohols Naming organic compounds, distillation required practical Mass spectrometry, Infrared spectroscopy Identifying functional groups required practical	50 mark test w/b 21st March	
3a 5 weeks 30 lessons	Consolidation of year 12 content Rate equations, Kp Order of reactions, reactions of period 3 elements Arrhenius equation, oxides of period 3 and their acidic/basic nature	End of year exam w/b 30th May? 85 marks	

3b	Rate determining step Measuring rate of reaction required practical		