Year 12 Chemistry

Year 12 Subject Curriculum Information

	Key Questions:	Specification:	Skill Focus:
Term 1:	How can we calculate how much we need of each substance? How can we use the periodic table to explain trends?	• *2.1.1. Atomic structure and isotopes* • *2.1.2. Compounds and Formulae* • *2.1.3 Amount of substance* • *2.1.4 Acids* • *2.1.5 Redox* • *2.2.1 Electronic structure* • *2.2.2. Bonding and structure* • *3.1.1 Periodicity* • *3.1.2 Group 2* • *3.1.3 The halogens* • *3.1.4 Qualitative Analysis*	*AO1: demonstrates knowledge and understanding to scientific ideas* *AO2: Applies knowledge and understanding to scientific ideas* *AO3: Analyses, evaluate and interpret scientific information*
Term 2:	How can we measure the energy and change the rate of a reaction? What are the different organic molecules and how do they react?	• *3.2.1 Enthalpy Changes* • *3.2.2 Reaction Rates* • *3.2.3 Chemical Equilibrium* • *4.1.1 Basic concepts of organic chemistry* • *4.1.2 Alkanes* • *4.1.3 Alkenes*	*AO1: demonstrates knowledge and understanding to scientific ideas* *AO2: Applies knowledge and understanding to scientific ideas* *AO3: Analyses, evaluate and interpret scientific information*
Term 3:	What techniques can we use to identify different organic compounds? What are the different organic molecules and how do they react?	• *4.2.1 Alcohols* • *4.2.2 Haloalkanes* • *4.2.3 Organic synthesis* • *4.2.4 Analytical Techniques*	*AO1: demonstrates knowledge and understanding to scientific ideas* *AO2: Applies knowledge and understanding to scientific ideas* *AO3: Analyses, evaluate and interpret scientific information*

Year 12 Subject Assessment Information

Assessment	Time/Venue	What will be assessed?
1	• **End of unit assessments** • **Each 30 minutes** • **Assessment 2**	The specification points covered during the term
2	• **End of unit assessments** • **Each 30 minutes**	The specification points covered during the term
3	• **Mock Exams**	All specification points covered in Year 12