

Year 13 Chemistry Curriculum

	AUT1	AUT2	SPR1	SPR2	SUM1	SUM2
Topic:	Aromatic Chemistry Carbonyls Carboxylic acids Organic synthesis Energetics Rates Equilibrium Kp		Amines Amino Acids Chirality Esters Acids		NMR Chromatography Entropy Redox Transition metals	
Knowledge Covered:	<u>Aromatic Chemistry</u> Structure of Benzene Reactions of Benzene <u>Carbonyls</u> Aldehydes Ketones <u>Carboxylic acids</u> Properties of Carboxylic acids <u>Organic Synthesis</u> Reagents and reaction mechanisms <u>Rates</u> Rate equations Arrhenius equation <u>Equilibrium</u> Calculations involving Kc Calculations involving Kp		<u>Amines</u> Nitrogen compounds Nomenclature of amines Reactions of amines <u>Amino Acids</u> Structure and reactions of amino acids <u>Chirality</u> Stereoisomerism <u>Esters</u> Structure and properties of Esters <u>Acids</u> Calculations involving strong acids Ka calculations Kw calculations Buffer calculations		<u>NMR</u> Proton NMR Analysis of C13 NMR <u>Entropy</u> Entropy Calculations <u>Redox</u> Redox titrations <u>Transition metals</u> Transition metal ion complexes Chirality in Transition metals	
Online resources:	Seneca A-levelchemistry.co.uk					