



## Verulam School: Key Stage 5 CURRICULUM INFORMATION

**Department: Science - Chemistry**

**Subject Leader: Jacqueline Tan**

**Subject Vision:** Our Science curriculum is designed to develop our students as strong independent thinkers who are curious about the world around them and develop their own scientific interests. We want them to have a range of complex scientific & transferable skills that allows them to make reasoned judgments for themselves and for the wider community.

<b>YEAR 12</b>						
<b>Term</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Topic/Unit Title	Atomic structure  Amount of substance  Bonding	Introduction to organic chemistry  Energetics  Kinetics  Alkanes	Haloalkanes  Equilibria  Alkenes	Alcohols  Oxidation, Reduction  Periodicity  Organic analysis	Group 2  Group 7  Revision	Y13 content: Nomenclature  Compounds containing the carbonyl group  Chromatography
<b>YEAR 13</b>						
<b>Term</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Topic/Unit Title	Thermodynamics  Kinetics  Nomenclature  Compounds containing the carbonyl group	The equilibrium constant  Electrode potentials and electrochemical cells  Aromatic chemistry  Amines	Polymerisation  Amino acids, proteins and DNA  Organic synthesis  Acids, bases and buffers	Periodicity  Transition metals, Reactions of inorganic compounds in aqueous solutions  Chromatography	Revision/Exams	