

## Sixth Form Subject Information

# Chemistry



<b>Qualification</b>	A - Level
<b>Exam Board</b>	Edexcel
<b>Course Leader</b>	Mr P. Kelsall
<b>Course summary</b>	The course is broken down into 3 strands – organic, inorganic and physical chemistry. Each section of the course begins with an overview, which puts the topic into a broader chemical context and encourages understanding of the place of each topic within the subject. The course is designed to inspire students, nurture their passion for chemistry and lay the foundations for further study and the workplace.
<b>What will students learn?</b>	<p><b><u>Year 12</u></b></p> <ul style="list-style-type: none"><li>• Atomic Structure</li><li>• Amount of substance</li><li>• Bonding</li><li>• Kinetics</li><li>• Energetics</li><li>• Chemical equilibria , Le Chatelier’s Principle and <math>K_c</math></li><li>• Organic Chemistry including alkanes, halogenoalkanes, alkenes, alcohols and organic analysis</li><li>• Group 2 and Group 7 elements</li></ul> <p><b><u>Year 13</u></b></p> <ul style="list-style-type: none"><li>• Chemistry of Group 3 and their oxides</li><li>• Transition metals</li><li>• Further organic chemistry including aldehydes and ketones, carboxylic acids, amines, aromatic chemistry and further organic analysis.</li><li>• Chromatography</li><li>• Thermodynamics</li><li>• Rate equations</li><li>• Acids and bases</li></ul>
<b>How will students be assessed?</b>	At the end of the second year there will be 3 papers covering all of the content from the two years. You will also keep a logbook of all the practical work completed in the two years for the Practical Endorsement aspect of the qualification.