

Curriculum Plan

Department/subject: Chemistry Year 12

Our Vision: **We take opportunities and aspire to excellence**

Our Intent:

- All students will experience a curriculum richness, breadth and depth
- The curriculum equips every student with the knowledge and skills for the future in our local area and beyond
- The curriculum builds on prior knowledge and creates a 'web of knowledge'
- Gaps in knowledge and skills are identified and addressed quickly

Year	Autumn
Knowledge to be taught	<p>Module 1 – 1.1 Practical skills assessed in written examination</p> <p>Module 2 – 2.1 Physical quantities, units and measurements</p> <p style="padding-left: 40px;">2.2 Nature of quantities</p> <p>Module 3 – 3.1 Motion</p> <p style="padding-left: 40px;">3.2 Forces in action</p> <p style="padding-left: 40px;">3.4 Materials</p> <p style="padding-left: 40px;">3.5 Newton's laws of motions</p>
Keywords	Random error, systematic error, accuracy, precision, absolute uncertainty, kinematic equations, projectile motion, triangle of forces, torque, Archimedes' principle, elasticity, deformation, Hook's law, stress, strain, ductile, malleable, brittle, ultimate tensile strength, principle of conservation of momentum, impulse.
Links to prior knowledge	<p>KS4 – Forces and Motion</p> <p>KS4 – States of Matter</p>

<p>How knowledge is assessed</p>	<p>Weekly Home Learning</p> <p>In class exam questions</p> <p>End of Topic Assessments</p>
<p>How gaps will be addressed</p>	<p>Weekly Home Learning</p> <p>In class exam questions</p> <p>End of Topic Assessment</p> <p>Class Discussion</p> <p>Independent Study Plans</p> <p>Completion of in class activities</p> <p>Kerboodle</p>
<p>Cultural capital lessons</p>	<p>Manipulation of practical resources, planning for risk.</p>