

DAGENHAM PARK SUBJECT CURRICULUM

Subject	Chemistry
Year Group	10
Overview	<p>GCSE Chemistry offers students the chance to gain a good understanding of:</p> <ul style="list-style-type: none"> • The nature of substances and how they react together. • The ways that atoms bond. • The rate of chemical change. • How chemistry is used in business and industry. • How our use of raw materials in fuels and manufacturing can affect the global and local environment. <p>The specification is designed to give students the tools and concepts they need to be able to construct a scientific approach to solving problems. Students will learn to ask and answer questions about the fundamental laws that govern natural phenomena. This is done by integrating the 'How Science Works' approach throughout the specification.</p> <p>The students need to carry out required practicals during class time to show that they can manipulate equipment, process results, formulate conclusions and evaluate their work.</p>
Autumn Half term 1	<p>Chemistry Unit 2: Bonding, structure and the properties of matter</p> <p>5.2.1 Chemical bonds, ionic, covalent and metallic</p> <p>5.2.2 How bonding and structure are related to the properties of substances</p> <p>5.2.3 Structure and bonding of carbon</p>
Autumn Half term 2	<p>Chemistry Unit 2: Bonding, structure and the properties of matter</p> <p>5.2.1 Chemical bonds, ionic, covalent and metallic</p> <p>5.2.2 How bonding and structure are related to the properties of substances</p> <p>5.2.3 Structure and bonding of carbon</p>
Spring Half term 1	<p>Chemistry Unit 3: Quantitative chemistry</p> <p>5.3.1 Chemical measurements</p> <p>5.3.2 Use of amount of substance in relation to masses of pure substances</p>
Spring Half term 2	<p>Chemistry Unit 3: Quantitative chemistry</p> <p>5.3.1 Chemical measurements</p> <p>5.3.2 Use of amount of substance in relation to masses of pure substances</p>

<p>Summer Half term 1</p>	<p>Chemistry unit 4: Chemical Changes 5.4.1 Reactivity of metals 5.4.2 Reactions of acids 5.4.3 Electrolysis</p>
<p>Summer Half term 2</p>	<p>Chemistry Unit 5: Energy changes 5.5.1 Exothermic and endothermic reactions</p>
<p>Homework</p>	<p>Homework Graded tasks. Revision packs. Exam booklets.</p>
<p>Useful Resources</p>	<p>Useful Resources/websites Study packs on every section are on the learning platform. CGP Revision guides. School's Share point.</p>