

## Programme of Study/Scheme of Work 2023-2024

Subject – Science

Year group: 7B

Unit Outline. (Overview of what is being delivered in each half-term)	Key Skills to be developed	Methods used to develop skills. What tasks/activities will you use to maximise outcomes? (Based on deconstructing the tasks proven to be effective at KS 3/4)	Success criteria. (How will you know and record if pupils have learnt what is required?)	Cross curricular links. (What are the key skills which could be used in other subjects?)	Assessment /Criteria / Methods
<p><b><u>Autumn 1</u></b></p> <p><b>Photosynthesis</b></p>	<p>The reactants in, and products of, photosynthesis, and a word summary for photosynthesis.</p> <p>The dependence of almost all life on Earth on the ability of photosynthetic organisms, such as plants and algae, to use sunlight in photosynthesis to build organic molecules that are an essential energy store and to maintain levels of oxygen and carbon dioxide in the atmosphere the adaptations of leaves for photosynthesis</p>	<p><b>Generic:</b> PowerPoint presentations Group discussion Video clips Peer support/ Matching activities Worksheets</p>	<p>Completion of mini tasks in lessons and formative assessment</p> <p>Home work</p> <p>Summative assessment</p>		<ul style="list-style-type: none"> <li>- Individual feedback (WWW-EBI)</li> <li>- Peer marking</li> <li>- Self marking</li> <li>- Verbal feedback</li> <li>- Grading (Emerging, Developing, Secure)</li> <li>Summative assessment</li> </ul>
<p>Autumn 2</p> <p><b>Energetics</b></p>	<p><b>Energy changes on changes of state (qualitative)</b></p>	<p><b>Generic:</b> PowerPoint presentations Group discussion Video clips</p>	<p>Completion of mini tasks in lessons and formative assessment</p> <p>Home work</p>		<ul style="list-style-type: none"> <li>- Individual feedback (WWW-EBI)</li> <li>- Peer marking</li> <li>- Self marking</li> </ul>

Building up resilience, managing myself and communication.

	<b>exothermic and endothermic chemical reactions (qualitative)</b>	Peer support/ Matching activities Worksheets	Summative assessment		- Verbal feedback - Grading (Emerging, Developing, Secure)  Summative assessment
<b><u>Spring 1</u></b>  <b>Pressure in fluids</b>	Atmospheric pressure, decreases with increase of height as weight of air above decreases with height.  Pressure in liquids, increasing with depth; upthrust effects, floating and sinking pressure measured by ratio of force over area – acting normal to any surface	<b>Generic:</b> PowerPoint presentations Group discussion Video clips Peer support/ Matching activities Worksheets	Completion of mini tasks in lessons and formative assessment  Work created for display  Home work  Summative assessment		- Individual feedback (WWW-EBI) - Peer marking - Self marking - Verbal feedback - Grading (Emerging, Developing, Secure, Mastering)  Half term summative assessment

<p><b><u>Spring 2</u></b></p> <p>Matter</p> <p>Physical changes</p>	<p>Conservation of material and of mass, and reversibility, in melting, freezing, evaporation, sublimation, condensation, dissolving similarities and differences, including density differences, between solids, liquids and gases.</p> <p>Brownian motion in gases diffusion in liquids and gases driven by differences in concentration the difference between chemical and physical changes.</p>	<p><b>Generic:</b> PowerPoint presentations Group discussion Video clips Peer support/ Matching activities Worksheets</p>	<p>Completion of mini tasks in lessons and formative assessment</p> <p>Work created for display</p> <p>Home work</p> <p>Summative assessment</p>		<ul style="list-style-type: none"> <li>- Individual feedback (WWW-EBI)</li> <li>- Peer marking</li> <li>- Self marking</li> <li>- Verbal feedback</li> <li>- Grading (Emerging, Developing, Secure, Mastering)</li> </ul> <p>Half term summative assessment</p>
<p><b><u>Summer 1</u></b></p> <p>Pure and impure substances</p>	<p>The concept of a pure substance mixtures, including dissolving diffusion in terms of the particle model.</p> <p>Simple techniques for separating mixtures:</p>	<p><b>Generic:</b> PowerPoint presentations Group discussion Video clips Peer support/ Matching activities Worksheets</p>	<p>Completion of mini tasks in lessons and formative assessment</p> <p>Work created for display</p> <p>Home work</p>		<ul style="list-style-type: none"> <li>- Individual feedback (WWW-EBI)</li> <li>- Peer marking</li> <li>- Self marking</li> <li>- Verbal feedback</li> </ul>

	filtration, evaporation, distillation and chromatography the identification of pure substances		Summative assessment		- Grading (Emerging, Developing, Secure, Mastering)  Half term summative assessment
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<p><b>Summer 2</b></p> <p>Forces and motion</p>	<p>Forces being needed to cause objects to stop or start moving, or to change their speed or direction of motion (qualitative only)</p> <p>Change depending on direction of force and its size</p>	<p><b>Generic:</b>  PowerPoint presentations  Group discussion  Video clips  Peer support/  Matching activities  Worksheets</p>	<p>Completion of mini tasks in lessons and formative assessment</p> <p>Work created for display  Home work</p> <p>Summative assessment</p> <p>Completion of mini tasks in lessons and formative assessment</p> <p>Work created for display</p> <p>Home work</p> <p>Summative assessment</p>		<ul style="list-style-type: none"> <li>- Individual feedback (WWW-EBI)</li> <li>- Peer marking</li> <li>- Self marking</li> <li>- Verbal feedback</li> <li>- Grading (Emerging, Developing, Secure, Mastering)</li> </ul> <p>Half term summative assessment</p>
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