

**Year 8 Curriculum Overview [2022-2023]**  
**Subject – Technology**

<b>Knowledge &amp; Understanding</b>			<b>Literacy Skills</b>  Opportunities for developing literacy skills	<b>Employability Skills</b> [if any]	<b>Assessment Opportunities</b>
<b>Composites</b>	<b>Components</b>  [includes understanding of KEY concepts & subject specific vocab]	<b>Formal Retrieval</b> [if any]			
<b>9 Lessons – Design Technology – Metal Casting</b>					
<ul style="list-style-type: none"> <li>• Research skills</li> <li>• Materials</li> <li>• Design skills</li> <li>• Making skills</li> </ul>	<ul style="list-style-type: none"> <li>• Design brief/specification</li> <li>• Task analysis</li> <li>• Ferrous metals</li> <li>• Non-ferrous metals</li> <li>• Alloys</li> <li>• Concept sketches</li> <li>• Cutting tools</li> <li>• Metal Casting</li> <li>• Finishing</li> <li>• Health and Safety</li> <li>• CAD/CAM – laser cutter</li> <li>• Iterative design/processes</li> </ul>	<ul style="list-style-type: none"> <li>• Health and Safety</li> <li>• Drawing skills</li> <li>• Measurements</li> <li>• Marking out</li> <li>• CAD/CAM</li> </ul>	<ul style="list-style-type: none"> <li>• Reading for research</li> <li>• Listening skills</li> <li>• Conveying ideas</li> <li>• Comprehension</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Aided Design</li> <li>• Independent work</li> <li>• Listening skills</li> <li>• Communication skills</li> <li>• Time management</li> <li>• Following instructions</li> </ul>	<ul style="list-style-type: none"> <li>• Summative theory assessment</li> <li>• Assessment of final product and self-evaluation</li> </ul>

9 Lessons – Design Technology – Mechanical toy

<ul style="list-style-type: none"> <li>• Research skills</li> <li>• Materials</li> <li>• Design skills</li> <li>• Making skills</li> </ul>	<ul style="list-style-type: none"> <li>• Design task</li> <li>• Product analysis</li> <li>• Wood</li> <li>• Concept sketches</li> <li>• Isometric design</li> <li>• Ergonomics, anthropometrics and use of data.</li> <li>• Cutting tools</li> <li>• Finishing</li> <li>• Health and Safety</li> <li>• Mechanisms (cams and linkage)</li> </ul>	<ul style="list-style-type: none"> <li>• Health and Safety</li> <li>• Drawing skills</li> <li>• Measurements</li> <li>• Marking out</li> <li>• CAD/CAM</li> <li>• Mechanisms</li> </ul>	<ul style="list-style-type: none"> <li>• Reading for research</li> <li>• Listening skills</li> <li>• Conveying ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Aided Design</li> <li>• Independent work</li> <li>• Listening skills</li> <li>• Communication skills</li> <li>• Time management</li> <li>• Following instructions</li> <li>• </li> </ul>	<ul style="list-style-type: none"> <li>• Summative theory assessment</li> <li>• Assessment of final product and self-evaluation</li> </ul>
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