

Design & Technology - KS3

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year 7	<p>Students in Year 7 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Design briefs and task analysis</i></p> <p><i>Design ideas</i></p> <p><i>Developing design ideas</i></p> <p><i>CAD (Computer Aided Design) – 2D Design</i></p> <p><i>Manufacturing with CAM (Computer Aided Manufacture) – Laser cutter</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G1: – Graphics/Computer suite.</p> <p>Project: Figurine of Acrobat Toy Project.</p>	<p>Students in Year 7 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop</i></p> <p><i>Metal Theory</i></p> <p><i>Tools and machinery used with metals</i></p> <p><i>Design Brief and task analysis</i></p> <p><i>Writing a specification</i></p> <p><i>Manufacturing with metals</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G2: – Metal/Plastic based workshop.</p> <p>Project: Metal Trophy Project.</p>	<p>Students in Year 7 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop</i></p> <p><i>Design briefs and design specifications</i></p> <p><i>Wood theory</i></p> <p><i>Tools and machinery used with woods</i></p> <p><i>Reading orthographic/working drawings</i></p> <p><i>Manufacturing with woods</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G3: - Wood based workshop.</p> <p>Project: Stand of Acrobat Toy Project.</p>
Year 8	<p>Students in Year 8 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>One Point Perspective</i></p> <p><i>Two Point Perspective</i></p> <p><i>Isometric Sketching</i></p> <p><i>CAD (Computer Aided Design) – 2D Design</i></p> <p><i>CAD (Computer Aided Design) – Autodesk Inventor</i></p> <p>Room G1: – Graphics/Computer suite.</p> <p>Project: Sketching & CAD Skills.</p>	<p>Students in Year 8 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop recap</i></p> <p><i>Metal Theory – Advanced from Year 7</i></p> <p><i>Tools and machinery used with metals – Advanced</i></p> <p><i>Design Brief and task analysis</i></p> <p><i>Manufacturing with metals</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p><i>Plastics Theory and Processes</i></p> <p><i>Manufacturing with Plastics</i></p> <p>Room G2: – Metal/Plastic based workshop.</p> <p>Project: Candle Holder & Frisbee Projects.</p>	<p>Students in Year 8 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop recap</i></p> <p><i>Design briefs and design specifications</i></p> <p><i>Wood theory – Advanced from Year 7</i></p> <p><i>Tools and machinery used with woods - Advanced</i></p> <p><i>Reading orthographic/working drawings</i></p> <p><i>Manufacturing with woods</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G3: - Wood based workshop.</p> <p>Project: Jewellery/Mug Tree Stand.</p>

Year 9	<p>Students in Year 9 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Drawing Techniques – Geometric Shapes, Jack Straws, Scrufigitti</i></p> <p><i>Design briefs and task analysis</i></p> <p><i>Design Specification</i></p> <p><i>Design Ideas</i></p> <p><i>Prototyping</i></p> <p><i>CAD (Computer Aided Design) – 2D Design</i></p> <p><i>CAD (Computer Aided Design) – Autodesk Inventor</i></p> <p><i>CAM (Computer Aided Manufacture)</i></p> <p><i>Testing and evaluating</i></p> <p>Room G1: – Graphics/Computer suite.</p> <p>Project: Headphone Wrap Project.</p>	<p>Students in Year 9 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop recap</i></p> <p><i>Metal Theory – Advanced from Year 8</i></p> <p><i>Tools and machinery used with metals – Advanced</i></p> <p><i>Design Brief and task analysis</i></p> <p><i>Manufacturing with metals</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G2: – Metal/Plastic based workshop.</p> <p>Project: Clock Project.</p>	<p>Students in Year 9 spend one term in each of the D&T rooms and study the following topics...</p> <p><i>Health & safety in the workshop recap</i></p> <p><i>Design brief and task analysis</i></p> <p><i>Wood theory – Advanced from Year 8</i></p> <p><i>Tools and machinery used with woods - Advanced</i></p> <p><i>Manufacturing with woods</i></p> <p><i>CAD/CAM – Laser engraving</i></p> <p><i>Manufacturing diary</i></p> <p><i>Testing and evaluating</i></p> <p>Room G3: - Wood based workshop.</p> <p>Project: Box Project.</p>
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