



Long Term Planning

Materials Technology Tech Award

Year 10

	Topic	Developing	Assessment Outcome
Autumn 1	<p>Metals and Alloys and Timber</p> <p>Unit 1 Making Project 1</p>	<ul style="list-style-type: none"> Understanding of properties, characteristic benefits and limitations of metal and timber 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>
Autumn 2	<p>Polymers, Tools and Machinery</p> <p>Unit 1 Making Project 1</p>	<ul style="list-style-type: none"> Understanding of properties, characteristic benefits and limitations of polymers Understanding appropriate manufacturing processes to create a desired outcome when using specific materials and identifying and selecting materials 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>
Spring 1	<p>Adhesives and Finishes</p> <p>Unit 1 Making Project 2</p>	<ul style="list-style-type: none"> Knowledge of Polyvinyl Acetate (PVA), cyanoacrylate, liquid solvent cement, epoxy resin, contact adhesive Appropriate finishes for different materials 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>
Spring 2	<p>Quality Control and Testing</p> <p>Unit 1 Making Project 2</p>	<ul style="list-style-type: none"> the measures that can be taken to ensure accuracy when manufacturing in volume quality of a product can be affected by the initial material selection, eg faults in wood and variation in material thickness. 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>

Summer 1	<p>CAM and Joining Techniques</p> <p>Unit 1 Making Project 3</p>	<ul style="list-style-type: none"> • CAM benefits, limitations, equipment and processes • Knowledge of soldering (soft/hard), brazing, riveting, welding, housing, rebate, dovetail, comb, butt, dowel, frame joints, mitre, mortise and tenon. 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>
Summer 2	<p>Sustainability</p> <p>Unit 1 Making Project 3</p>	<ul style="list-style-type: none"> • Sources of materials • Product Life Cycle 	<p>Fortnightly assessment questions in exercise book</p> <p>End of half term assessment</p> <p>Documentation of projects against 12 skills for portfolio</p>