Key Stage 5 DT
Programme of Study

Yr 12 Trammel (portfolio)	*Yr 12 Container (portfolio)*	*Year 12 Graphics/Storage (portfolio)*	*Year 12 Product Disassembly (portfolio)*	*Yr12/13 Self-study book Dept Theory Book*	*Yr 12/13 NEA*
Year 12: • **Orthographic CAD Drawing** • **Gantt Chart** • **Plan of Action** • **Record of Manufacture** • **Evaluation against Technical Specification** • **Testing** Focus: Types of metal Joining Methods Acrylic Use of laser cutter Use of metal lathe Drilling, shaping and wasting	**Year 12:** • **Orthographic Drawing** • **Flow Chart** • **Plan of Action** • **Record of Manufacture** • **Testing** Properties and types of timber/wood Joining methods Use of Laser cutter	**Year 12:** • **Design Specification(user requirements)** • **<u>Design Ideas</u>** • **1 point perspective** • **2 point perspective** • **Isometric** • **CAD** • **Modelling** • **Technical Specification** Drawing techniques Modelling Stake holders and user requirements	**Year 12:** • **Modern and contrasting product** • **User requirements** • **Form** • **Function** • **Components** • **Performance Requirements** • **Materials** • **Processes** • **Costs** • **JIT Flow Chart** • **Standards (EU, BSI+ and evaluation)** Production methods Use of Materials JIT Planning Standards	**Year 12/13:** • **Identifying Requirements** • **Learning from Existing Products** • **Implications and Wider Issues** • **Design Thinking and Communication** • **Materials and /component Considerations** • **Technical Understanding** • **Manufacturing Processes and Techniques** • **Viability of Design Solutions** • **Health and Safety**	**Year 12/13:** • **Identifying requirements** • **Stakeholder analysis** • **Usability** • **Existing Products** • **Past Present Developments** • **Design Factors** • **2D/3D Modelling** • **Materials and Components** • **Technical Understanding** • **Manufacturing Processes and techniques** • **Materials** • **Viability/stakeholder requirements** • **Planning** • **Making** • **H&S** • **Evaluation**
<u>Assessment for Learning:</u> • **Evaluation and Peer Assessment** • **Self-Assessment** • **Design folder and hammer** • **End of unit test**	**<u>Assessment for Learning:</u>** • **Evaluation and Peer Assessment** • **Self-Assessment** • **Design folder and stool** • **End of unit test**	**<u>Assessment for Learning:</u>** • **Evaluation and Peer Assessment** • **Self-Assessment** • **Design folder** • **End of unit test**	**<u>Assessment for Learning:</u>** • **Evaluation and Peer Assessment** • **Self-Assessment** • **Design folder** • **End of unit test**	**<u>Assessment for Learning:</u>** • **Teacher Assessment** • **End of unit test/mock**	**<u>Assessment for Learning:</u>** • **Evaluation and Peer Assessment** • **Self-Assessment** • **End of unit test**
<u>Homework:</u> As set by teacher **Work on Portfolio**	**<u>Homework:</u> As set by teacher** **Work on Portfolio**	**<u>Homework:</u> As set by teacher** **Work on Portfolio**	**<u>Homework:</u> As set by teacher**	**<u>Homework:</u> As set by teacher** **Self-study work**	**<u>Homework:</u> As set by teacher** **Continue portfolio at home**