

Design Technology

Key Stage 3 Curriculum Map

	Module One	Module Two
Y7	Working with Wood: making a wood product (tablet/phone holder) This is the student introduction to design technology, working in the workshop and becoming familiar with tools, equipment and processes. Key Learning: • Basic hand tools • Marking out • Interpreting design briefs • Design sketching and modelling • Using machine tools safely and effectively • Joining methods for wood • Health & safety • Evaluation of a product and design Assessment: practical outcome, drawing and written work	Casting with metal: making a pewter cast pendant Students design and make a piece of jewellery. Key Learning: • Interpreting design briefs • Design sketching and modelling • Computer Aided Design and Computer Aided Manufacture • Properties of metals • Casting processes for metal • Health & safety • Evaluation of a product and design Assessment: practical outcome, drawing and written work

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Y8	Small decorative storage box. Students make a small wooden storage box with a decorated lid etched with a laser cut pattern. Key Learning: • Interpreting design briefs • Writing a specification • Manufacturing skills including wood joints • Computer aided design and computer aided manufacture • 3D drawing • Health & safety • Evaluation of a product and design Assessment: practical outcome and written work	Casting with metal: making a pewter cast item of jewellery Students design and make a piece of jewellery inspired by a 20th Century design movement. Key Learning: • Interpreting design briefs • Writing a specification • Design sketching and modelling • Computer Aided Design and Computer Aided Manufacture • Properties of metals • Casting processes for metal • Health & safety • Evaluation of a product and design Assessment: practical outcome, drawing and written work

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Y9	Working with metal. Students design and make a metal insect from sheet metal. Key learning: • Interpreting design briefs • Writing a specification • Design sketching and modelling • Computer Aided Design • Properties of metals • Health & safety • Shaping and forming metal • Joining methods for metal heat treatment • Evaluation of a product and design Assessment: practical outcome, sketching, modelling and written work.	Casting with metal: making a pewter cast item of jewellery Students design and make a piece of jewellery inspired by a chosen design movement. Key Learning: • Interpreting design briefs • Writing a specification • Design sketching and modelling • Computer Aided Design and Computer Aided Manufacture • Properties of metals • Casting processes for metal • Health & safety • Evaluation of a product and design Assessment: practical outcome, drawing and written work