

Yr7	Autumn Term 1	Spring Term 1	Summer Term 1
1	Knowledge of H&S in the workshops and PPE to be used. <b>PSHE H&amp;S</b>	Knowledge of Solder safety <b>CAR</b>	
2	Types of plastics L1 Thermoplastics. <b>LIT</b>	KO: Simple electronic circuit construction Lamp project	
3	Shaping and forming of plastics L1 Strip Heater <b>LIT NUM</b>	Electronic product disassembly	
4	Types of wood L1 Manufactured boards <b>LIT NUM</b>	Simple electronic circuit design <b>CAR</b>	
5	Shaping and joining of woods L1 Coping Saw Glasspaper <b>LIT CAR</b>	Electronics lamp project design <b>CAR</b>	
6	Tools and their uses with the above materials L1 <b>LIT</b>	Testing and Evaluating <b>LIT</b>	
	Autumn Term 2	Spring Term 2	Summer Term 2
1	3D sketching using grids Isometric <b>NUM</b>	Designing for a client <b>LIT</b>	
2	3D sketching without grids Freehand	Understanding client requirements <b>LIT</b>	
3	Design Process Designing a Gadget tidy <b>CAR</b>	Developing a product based on client feedback <b>LIT</b>	
4	Production of a designed outcome <b>CAR</b>	Practical Production of outcome	
5	Biomimicry Design <b>LIT</b>	Practical Production of outcome	
6	Testing and Evaluating <b>LIT</b>	Practical Production of outcome plus evaluation	

Yr8	Autumn Term 1	Spring Term 1	Summer Term 1
1	Developed knowledge of H&S in the workshops and PPE to be used. <b>PSHE H&amp;S</b>	Knowledge of: Structures <b>LIT</b>	
2	Types of plastics L2 Thermosetting plastics <b>LIT</b>	Practice wood Joints used to make a product structurally stronger	
3	Shaping and forming of plastics L2 Use of Jigs and moulds <b>LIT</b>	Designing for our local environment (Nesting Box)	
4	Types of wood L2 Softwoods <b>LIT</b>	Practical production of a nesting box Materials	
5	Shaping and joining of woods L2 Comb Joint, Hinges, PVA	Practical production of a nesting box Tools	
6	Tools and their uses with the above materials L2 <b>LIT</b>	Testing and Evaluating Nesting Box <b>LIT</b>	
	Autumn Term 2	Spring Term 2	Summer Term 2
1	Design Process L1 <b>LIT</b>	Knowledge of Solder safety <b>CAR</b>	
2	Developing their product for a client <b>LIT</b>	KO: Simple electronic circuit construction Steady hand game project	
3	Inclusive Design Creating a product for different users <b>LIT</b>	Electronic product disassembly	
4	Developing a made product	Simple electronic circuit design <b>NUM CAR</b>	
5	Knowledge of simple electronic circuits <b>NUM</b>	Electronics steady hand project design <b>NUM CAR</b>	
6	Testing and Evaluating <b>LIT</b>	Testing and Evaluating <b>LIT</b>	

Yr9	Autumn Term 1	Spring Term 1	Summer Term 1
1	Demonstration of H&S in the workshops and PPE to be used. <b>PSHE H&amp;S</b>	Knowledge of: Designing for a client <b>LIT</b>	
2	Mechanisms in mechanical toys <b>LIT NUM</b>	Production of a specification for a client based product <b>LIT</b>	
3	Cams and Followers <b>LIT NUM</b>	Designing of a Gadget tidy	
4	Linkages and Levers <b>LIT NUM</b>	Materials analysis for designed product and begin practical of designed GT	
5	3D sketching L1 <b>CAR</b>	Practical production of designed gadget tidy	
6	Simple box construction	Testing and Evaluating of the final product	
	Autumn Term 2	Spring Term 2	Summer Term 2
1	Use of machines in the workshop L1 <b>PSHE H&amp;S</b>	Designing for a client	
2	Use of machines in the workshop L2 <b>PSHE H&amp;S</b>	Understanding client requirements <b>LIT</b>	
3	Use of machines in the workshop L3 <b>PSHE H&amp;S</b>	Developing a product based on client feedback <b>LIT</b>	
4	Product assembly and just in time production <b>LIT</b>	Practical Production of outcome	
5	Developing a made product <b>CAR</b>	Practical Production of outcome <b>CAR</b>	
6	Testing and Evaluating <b>LIT</b>	Practical Production of outcome plus evaluation <b>LIT</b>	

Yr10	Autumn Term 1	Spring Term 1	Summer Term 1
1	Knowledge of H&S in the workshops <b>PSHE H&amp;S</b>	FT1 Completion from marking out to finished outcome of a Half Lap Joint <b>NUM</b>	
2	Marking out tools L1 <b>NUM</b>	FT2 Completion from marking out to finished outcome of a Bridal Joint <b>NUM</b>	
3	Cutting and shaping with wood tools <b>NUM</b> L1	FT3 Completion from marking out to finished outcome of a M&T Joint <b>NUM</b>	
4	Marking out tools L2	FT4 Completion from marking out to finished outcome of a Dovetail Joint <b>NUM</b>	
5	Cutting and shaping with wood tools L2 <b>NUM</b>	FT5 Production of a completed risk assessment for all FTs	
6	Materials Softwoods & Manufactured Boards <b>LIT</b>	Assessment of FTs	
	Autumn Term 2	Spring Term 2	Summer Term 2
1	Practice in Joining wood with adhesives and mechanical fixings L1 <b>NUM</b>	Time-management techniques <b>LIT CAR</b>	
2	Practice in Joining wood with adhesives and mechanical fixings L2 <b>NUM</b>	Organisational techniques <b>LIT</b>	
3	Practice in Joining wood with adhesives and mechanical fixings L3 <b>NUM</b>	Planners to organise time <b>LIT</b>	
4	Work of the construction industry L1 <b>LIT</b>	Review own time-management and organisational skills through identifyin	
5	Focus on Carpentry and Joinery L1 <b>CAR</b>	Planning: using time-management techniques <b>LIT CAR</b>	
6	Low level construction techniques of a Carpenter SIPS systems <b>CAR</b>	Managing information <b>LIT</b>	