| Long Term Planning Overview | | Key Stage 4 | | Subject Area: GCSE DT: Resistant Materials | | |

Year	Study Modules Assessment	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term2	Summer Term 1	Summer Term 2
Year 10	Study Modules	**Wood and Timber** **Practical work:** Wooden tealights and/or Bee box **Theory:** Classification and sources of wood and timber, finishing techniques, environment and sustainability, joining techniques, methods of drawing, modelling and testing design ideas.	**Wood and Timber** **Practical work:** Upholstered foot stool **Theory:** Production and classification of manufactured boards, knock down fittings and standard components, fibres and fabrics, costing Modelling to scale	**CAD/CAM and development sin Technology** **Practical work:** ID card holder and **Theory:** Programmable components Circuit diagrams and flow charts Smart and modern materials Production and classification of paper and board advantages and disadvantages of CAD/CAM	**Plastics and Polymers** **Practical work:** Folded plastic desk tidy with vacuum formed insert **Theory:** Production and classification of plastics and polymers, types of production, use of jigs and templates, Production and classification of paper and board	**Metals** **Practical work:** Pewter cast pendant **Theory:** Production and classification of ferrous and non-ferrous metals	**NEA:** Initial analysis and mind maps. Identification of a need and brief Primary and secondary research Initial ideas
	Assessment	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam (entire paper)	
Year 11	Study Modules	**NEA:**	**NEA:**	**NEA:** Modelling and testing.	**Revision and exam technique**	**Revision and exam technique**	

		Modelling and testing of initial ideas Details of final solution Production plan Making diary Begin making protoype	Completing prototype and making diary	Portfolio and sketchbook handed in ready for submission to exam board.			
	Assessment		Mock exam (entire paper)		Mock exam (entire paper)		