

Beamont Collegiate Academy Curriculum Map

Year: 8

Subject: Design & Technology



Intent	Implementation	Carousel 1 (9 weeks)	Carousel 2 (9 weeks)	Carousel 3 (9 weeks)	Carousel 4 (9 weeks)
Clarity around knowledge	Theme / topic	Food - Nutrition for life To be completed by KMA on return from maternity leave.	Textiles – Mini Monsters (Design & Make)	Computer aided Design Project (Vector & Bitmap based technical drawing)	‘Hold It’ Project (Focussed Practical Task)
	Key substantive knowledge		<ul style="list-style-type: none"> To develop an understanding of various fabrics and textiles to produce a product. To understand how to create a template / pattern To understand how to cut out your pattern pieces. To be able to identify different hand stitches. To learn how to complete stitches by hand. To be able to use fixings and fastenings then hand stitch to decorate To be able to apply applique (process) To be able to use blanket stitch to sew. To use a sewing machine accurately and safely 		<ul style="list-style-type: none"> To gain knowledge and skills of using the design process to find a solution to a design brief. To use hand tools, power tools, and workshop machinery with accuracy/precision and to understand their characteristics. To produce a high quality, functional realised product. To understand how to market a design towards a specific client/target audience.
	Disciplinary knowledge		<ul style="list-style-type: none"> use a variety of approaches to generate creative ideas and avoid stereotypical responses Understand use research and to identify and understand user needs. Understand how to solve problems given to them. Develop and communicate design ideas. Test, evaluate and refine their ideas and products against a specification, considering the views of intended users and other interested groups 		<ul style="list-style-type: none"> Produce a design brief outlining a solution to a problem. Produce a detailed product analysis. Understand the differences between Manufactured Timber, Softwoods and Hardwoods. Use specific hand tools to produce a mechanism To recognize and understand that products are manufactured using different scales of production, depending on the quantity of items being made.

			<ul style="list-style-type: none"> • Understanding of environment and designer responsibility. • understand and use the properties of materials and the performance of structural elements to achieve functioning solutions • Test and evaluate the final design proposal against the design specification. • Select from and use specialist tools, techniques, processes, equipment, and machinery precisely. 		<ul style="list-style-type: none"> • To be familiar with the systems used to manufacture one-off, batch and mass-produced items.
Clarity around sequencing	Main links across the curriculum		Understanding of the iterative design process applied to all design and make projects – Define, Design, Develop, Deliver.		Understanding of the iterative design process applied to all design and make projects – Define, Design, Develop, Deliver.
	Authentic cross curricular links		Art & Maths		ICT, Business Studies, History
Vocabulary	Key words		Template, Tessellation, Blanket Stich, Presser Foot, Specification, Applique, Fastenings, Fixings.		Problem, Solution, Analysis, Scale of Production, Continuous flow, Just in Time (JIT), One-off production, Batch production, Mass production. Engineered Timber, Softwood, Hardwood, Coniferous, Deciduous.
Assessment	Summative assessment		<p><u>Design & Make Project:</u></p> <ul style="list-style-type: none"> • Design Process (Work-booklet) • Making/Manufacturing Outcome • 1 x end of project test/assessment 		<p><u>Focussed Practical Task:</u></p> <p>Formative Assessment Throughout: Making/Manufacturing Outcome</p> <p>Summative Assessment: 1 x end of project test/assessment</p>
Links to the real world / careers / PD			International Trade Fair Trade Textiles Industries Environmental Issues – Sustainability		Industrial manufacturing processes – One off, Batch, Mass production & Continuous flow. Just In Time Production - KanBan