	Curriculum Subject: Design Technology								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
	Smart Key Fobs	Woodpecker Project	Woodpecker Project	Night Light Project	Night Light Project	Night Light Project			
YEAR 7	Sketching Health and Safety Properties of Polymers (Malleability) Thermosetting and Thermoforming	 Writing a Design Brief Select and use specialist equipment Using Tools independently Wood types and properties 	 Properties of Woods Working with Softwood Using specialist machinery Evaluating 	 Communication of Ideas 1 3D Sketching with annotation User needs Isometric drawing 	 Computer Based Tools Using CAD Measurement and Production Aids (Jig) Working with Jigs 	 Manufacturing Electronic Sysytems Working with electrical components Soldering Testing 			
	Speaker Project	Speaker Project	Desk Tidy Project	Desk Tidy Project					
YEAR 8	 Product Analysis Writing a Specification (ACCESSFM) Drawing Ideas in Isometric Properties of wood, glues and adhesives 	 Making material choices Stock forms, type and sizes Measurements, dimensions and tolerances Circuit assembly 	 Make functioning and appealing products Using wider range of making processes Using engineering drawings Independent use of making processes 	 Ensuring Accuracy Understanding tolerances Wasting processes by hand Addition processes vinyl 					
	Pewter Jewellery Project	Pewter Jewellery Project	Sustainable T Shirt Project	Educational Toy	Educational Toy	Educational Toy			
YEAR 9	Work of others - Biomimicry User-centred design Properties of metals Draw ideas using CAD Options Round 1	 Understanding moulds Manufacturing Processes 3 Pewter casting Finishing metals 	 Properties of Textiles CAD design Printing Textiles Impact on Production (CAD CAM) 	 Research and Investigation Research Existing Products Identifying a Client Suitability for Client 	 Iterative design approach Prototype Development Building prototypes Evaluating prototypes 	 Manufacturing Processes 4 Conduct manufacturing processes Finishing Materials Apply surface treatrments & finishes 			
	Mock NEA - Identifying & Investigating design possibilities (Section A & B)	Mock NEA – Generating design ideas (Section C)	Mock NEA – Developing design ideas (Section D)	Mock NEA – Realising design ideas (Section E)	Mock NEA – Analysing and Evaluating (Section F)	GCSE NEA (Section A & B)			
YEAR 10	 Design Strategies Briefs and Specifications Undertaking stages of investigation Ecological, Environmental and Social issues Options Round 2	 Investigation - primary and secondary The work of others Communication of ideas 1 Energy Generation and Storage 	 Properties of Materials Prototype development Using CAD to develop designs Selection / working with materials 	 Using and working with materials Manufacturing processes 1-5 Surface treatments and finishes Scales of manufacture 	 Customer review of final prototype Evaluate against criteria Suggest improvements Planning for NEA 	 Research and Investigation Gathering data Ergonomics and Anthropometrics Briefs and Specifications 			

	GCSE NEA (Section C & D)	GCSE NEA (Section D) / Mock exam	GCSE NEA (Section E & F)	Revision	Revision	External exams
YEAR 11	 The work of others Communication of ideas Exploring and Developing ideas Prototype development 	 CAD development Cutting list; Engineering drawings Material Investigation Exam Techniques 	 Manufacturing Manufacturing diary Evaluation against Specification Client; Testing; Improvements 	 Materials; Paper, Timber, Metal Processes; Paper, Timber, Metal Materials; Polymers, Textiles, Electronics Processes; Polymers, Textiles, Electronics 	 Impact on Industry Impact on Production Impact on Society and Environment Ecological, Environmental and Social Issues 	

St Bede's Curriculum Design Principles

Within subjects: depth, relevance, sequencing, spacing

Between subjects: breadth, cultural capital, coherence, progression, interlinking