

Subject Long Term Plan Year 8 Design Technology 2021-22

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Topic	Baseline Test – Brand Tag			Baseline Intervention		Sewing Techniques		
Core	Metalwork Brand Tag to gauge the retention level of Year 7 knowledge and accuracy with practical skills <ul style="list-style-type: none"> Review all aspects of the design process from Brief to Evaluation, focussing upon metal products Revisit metalworking skills/processes used for the dog-tag in Y7 Design booklet template used to record student outcomes Review of the 11 Assessment Criteria (AC) modelled on GCSE DT spec' Reaffirm how to use the DT Sketchbook and Book-Smart Introduce personalised design work 			Individual tasks for each student as identified in the assessment of the baseline <ul style="list-style-type: none"> Students use the TA of the <i>Brand Tag</i> baseline to improve their work, supported by small group teacher feedback Intervention activities focus upon improving the standard of the baseline test in conjunction with TA Re-assessment of student work by the teacher. This will be recorded on the DT tracker and used for Y8 data drop 1 		Introduction to hand sewing <ul style="list-style-type: none"> Differences between needle, pin, types of thread and safety considerations Threading a needle, starting and ending a stitch run Introduction to running, ladder and whipping stitches Making a basic hem and seam Sewing standard items: button, Velcro and popper QA – 8 stitches per inch. QC – identifying errors in sewn work; straightness, 8SPI, pitch of stitches etc Recording knowledge into the sketchbook 		
Challenge	By outcome as it is a baseline test Homework: Activities which deepen understanding of the design process and metalwork covered in the lesson. These could focus on keywords, investigations and/or practical tasks			Exemplars indicate High, Medium and Low Homework: Time given to respond to teacher feedback with a focus on meeting GCSE DT AC		Choosing the correct stitch for the job Homework: Cross stitch motif		
Assessment	Self- Assessment (SA)		Teacher formative assessment (TA)	Peer Feedback (PF) and Teacher verbal feedback (TVF)		Teacher verbal feedback (TVF)		

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Topic	Pocket Pouches			Hacky Sack			
Core	Textile process of making a simple fabric product and introduction to the sewing machine <ul style="list-style-type: none"> Making a simple pattern for a pouch using squared paper Hand sewn Pouch: developing seams and hems to make a basic pouch with a flap Hand sewing a button hole and button Machine sewing a pouch Recording knowledge into the sketchbook 			Enhancing fabrics <ul style="list-style-type: none"> Introduction to COSHH Tie dying Embellishing fabrics (decorative stitches, sewn motifs, applique, sequins...) Introduction to the sublimation printer Using a standard pattern for a hacky sack Personalising the fabric/embellishment of the hacky sack Fillings and environmental considerations (polystyrene, beans, rice) Recording knowledge into the sketchbook 			
Challenge	8 Stitches per inch. Accuracy of sewn lines by hand. QA and QC of products. Different settings for the sewing machine: button hole, stitch types and accuracy Homework 1-2: Keyword learning and assessment Homework 3-4: Why has it never been invented yet?			Marketable product which will last the wear and tear of being a hacky sack Homework 5-6: Time given to respond to teacher feedback			
Assessment	SA and TA			Client feedback			

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Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Topic	Swag Bag						
Core	<p>Designing and Developing, through prototyping, a new fabric product (Swag Bag)</p> <ul style="list-style-type: none"> Expanding on a design brief (the Swag Bag), identifying a client and interviewing the client Writing a product specification which describes a bag for a particular client and product use Investigation into existing bag patterns: making a paper toile Gathering research: primary investigation into existing bags Developing the paper toile to better meet the specification Practical investigation into fabrics and standard fabric items to identify what will be used to make the bag Planning the stages of manufacture Independently making the bag: hand sewing and machine sewing 						
Challenge	<p>Independence (teacher as facilitator) and complexity of bag toile. Design decisions focus closely on the needs of a client which is not themselves.</p> <p>Homework 1: Fabrics keywords 1 Homework 2: Textile tools keywords 1 Homework 3: Textile processes keywords 1</p>						
Assessment	<p>Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs</p>						

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	EASTER
Topic	Swag Bag						
Core	<p>Working from own fabric patterns to independently prepare, assembling, embellish and finishing a fabric bag</p> <ul style="list-style-type: none"> Independently making the bag developed last half term: hand sewing and machine sewing Reviewing the making process and planning: quality assurance, quality control, overcoming problems Practical investigation in more advanced sewing techniques: button holes and zips on the sewing machine Reviewing the making in terms of meeting the specification: writing a manufacturers specification Developing the bag further: Introduction to sublimation printing and the heat press Using the bag-tag from the autumn 1 baseline to embellish the bag Testing and evaluating the bag with the client Marketing the bag 						
Challenge	<p>Manufacturing a well-made, marketable and bespoke bag for a real client</p> <p>Homework 1: Fabric, textile tools and textile processes keywords 2 Homework 2: Design like: Westwood, Coco, Morriss, Quant and McQueen Homework 3: Why has it never been invented yet TWO?</p>						
Assessment	<p>Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs</p>						

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Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Topic	Pewter Pendant		Pandora Charm – Metal Clay		Jangle Jewellery		
Core	Focussed practical task (FPT) - Introduction to casting metal to make a pendant for a teenager <ul style="list-style-type: none"> Analysing the design brief for a pewter pendant Creating a design for a pendant combining pewter and acrylic Making a mould for a pendant: 4mm thick wood Observing the pewter casting process: COSHH and safety Making the pewter pendant: casting, drilling, filing, edge finishing metal Making the necklace cord: leather and cord threads, useful knots Evaluating the pendant 		FPT - Introduction to semi-precious clays by sculpturing a pandora style charm <ul style="list-style-type: none"> Analysing the design brief for making a charm Modelling a design for a charm: plasticine prototyping, pea-sized clay, sculpture tools Observing the kiln: COSHH and safety Sculpting the charm Firing the charm Finishing the charm Evaluating the charm 		Design a bespoke piece of jewellery utilising metal, woods and polymers <ul style="list-style-type: none"> Analysing the design brief for making a jewellery piece Investigation of the materials available: non-ferrous metals (including pewter and metal-clay), thin plywood and veneers, acrylic and HIPS, jewellery standard items Modelling a design for the jewellery: card and compliant modelling materials Observing jewellery making: clasps, links and finishing Making the jewellery piece Evaluating the charm 		
Challenge	Combining pewter with acrylic Homework 1: Design like: Templier or Tiffany		Detail and quality of the charm Homework 1: Design like: Mackintosh		Making a marketable product. Homework 1: Metalworking tools and processes keywords 3		
Assessment	Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs		Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs		Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs		

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	SUMMER
Topic	Rapid Prototyping			Design Challenge			
Core	FPT - Introduction to the lasercutter FPT - Introduction to 3d printing FPT - Introduction to Card press <ul style="list-style-type: none"> Using Techsoft 2d Design with accuracy: drawing a keyring fob How to use the LaserCutter: set up, upload, safety Using DesignSpark Mechanical: creating simple shapes with holes and raised portions How to use the 3d Printer: set up, upload, printing and safety Investigation into the card press machine: standard press cutters and safety Investigation of paper/card printing processes and product manufacture: Offset Lithography, inkjet printing, embossing, scoring, perforating Using the press and developing a net to hold small products 			Independently following the design process to create a product for Roald Dahl Revolting Rhymes <ul style="list-style-type: none"> Exploring what a design challenge is: choosing a context, identifying a client and writing a brief Creating a product specification Investigation into common papers and cards: look like, used for, taking colour, joining, cutting Investigation in nets: range of shapes, embossing, debossing Investigation into mechanical card technology: V-fold, pivot, slider Designing a solution Building a prototype Pitching a product to an audience Industrial manufacturing processes: offset lithography, inkjet, card cutting Using questionnaires to evaluate a product 			
Challenge	Competence of 2 or more rapid prototyping techniques Homework 1: Rapid prototyping tools and processes keywords 1			Complexity of the mechanism used in the product Use of graphic skills to produce a marketable product Homework: continuation of independent study			
Assessment	Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs			Self-assessment using the Header Sheet ACs Teacher assessment using the Header Sheet ACs			