

SUBJECT: Year 9 D&T (Creative Technology) - Autumn Term



Rotation A: Product Design	
Topic	<p>CLOCK PROJECT In this project students will apply elements of the Iterative Design process using both traditional and Computer Aided Design tools to design unique elements of a clock which they will produce using Computer Aided Design, Computer Aided Manufacture, and workshop tools and equipment. In the first half term students will</p> <ul style="list-style-type: none"> Analyze existing products to identify design opportunities Research work from a chosen designer Create original Graphical Design elements through the application of a theme using traditional and Computer Aided Design Tools. Create formal drawings to develop & communicate ideas Learn about the Core Principles of Design to underpin Design their Design Practice and gain an insight into the GCSE course of Study in Design & Technology.
Assessment	<p>Progress Check 1 Approximate Date of Assessment Week Beginning: Students will be assessed on their ability to</p> <ul style="list-style-type: none"> Analyze existing products to identify design opportunities Use some technical language and methods of communication, to produce simple formal drawings and Computer Aided Designs and annotated sketches suited to the requirements of this project Work safely, applying technical skills in the production of a clock. Appraise own work and that of others
	<p>CLOCK PROJECT In the second half term students will</p> <ul style="list-style-type: none"> Students will complete the production of a clock that has influence from a chosen designer. Develop further core technical competencies when cutting shaping polymers to produce a completed prototype. Students will learn about the different classifications of polymers as well as the physical and working properties of some polymers in order to select materials with consideration of purpose as well as social and environmental factors. Continue to Learn about the Core Principles of Design
	<p>MILESTONE 1 Approximate Date of Assessment Week Beginning: Students will be assessed on their ability to</p> <ul style="list-style-type: none"> Refer to formal drawings and annotated sketches to produce a functioning prototype safely and effectively applying appropriate shaping and manufacturing technical skills with timber and polymer. Demonstrate knowledge and understanding of Core Technical Principles Evaluate their finished product and justify the design choices they have made.



Rotation B: Textiles	
Topic	<p>PENCIL CASES Pupils will start by researching existing pencil cases analyzing what goes into the design. They will also research existing fastenings by refining their hand sewing skills by attaching them to fabrics so they can evaluate their usefulness for a pencil case. Students will then also create a client questionnaire and then use this feedback to create different design ideas. Once this has gone back to the client they will then create one final design for their pencil case, which has explanation of the design choices that have been made. Once finished students will create a manufacturing specification which includes; a care label for the pencil case, fabric and stitch descriptions and a components list.</p>
Assessment	<p>Progress Check 2 Approximate Date of Assessment Week Beginning:</p> <ul style="list-style-type: none"> • Students analyse existing pencil cases commenting on design, shape and fastening. • Students will demonstrate their capability at hand sewing a number of different fastenings and then evaluating their usefulness. • Students will produce a number of creative design ideas that reflect their client's wishes, and explain how they have met their client's requirements.
	<p>PENCIL CASES In the second half term students finish their manufacturing specification by creating a flow diagram of production for their individual pencil case. They will then have practical lessons where they manufacture their design. Once this has been completed they will then evaluate their finished work, comparing it to their final design and making an overall judgement of their level of success.</p>
	<p>MILESTONE 2 Approximate Date of Assessment Week Beginning:</p> <ul style="list-style-type: none"> • Students will have created a high quality pencil case which includes specified design elements for their chosen client. • Students will have evaluated their finished product, justifying the design choices they have made.



Rotation C: Computing			
Topic	<p><u>Flash Animation Healthy Eating</u></p> <p>Pupils will be working to a project brief in order to solve a problem they will be asked to create an animation on healthy eating. This will be achieved by the pupils doing the following:</p> <ul style="list-style-type: none"> • Review and discuss different types of animation, developing ideas. • Explain user requirements and developing a possible design. • Creating an animation based on requirements. • Developing a series of test to the animation. • Evaluating and suggesting improvements to the animation. • 		
Assessment	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><u>Progress Check 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be on the classwork that they have produced and provide them with written targets in order to support them to move forward.</p> </td> <td style="width: 50%; vertical-align: top;"> <p><u>MILESTONE 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be on the classwork that they have produced and provide them with written targets in order to support them to move forward.</p> </td> </tr> </table>	<p><u>Progress Check 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be on the classwork that they have produced and provide them with written targets in order to support them to move forward.</p>	<p><u>MILESTONE 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be on the classwork that they have produced and provide them with written targets in order to support them to move forward.</p>
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Rotation B: Textiles	PENCIL CASES	Students will have created a high quality pencil case which includes specified design elements for their chosen client. Students will have evaluate their finished product, justifying the design choices they have made.
Rotation C: Computing	FLASH ANIMATION - HEALTHY EATING	The assessment will be on the classwork that they have produced and provide them with written targets in order to support them to move forward.