

## **Product Design - CURRICULUM PLAN subject**

YEAR	TRINITY 2	MICHAELMAS 1	MICHAELMAS 2	LENT 1	LENT 2	TRINITY 1	
8	<ul> <li>Pupils rotate in a 9 week rotation between the following areas. Art, FPN, Textiles and DT over the course of Year 8.</li> <li>Groups have one double and a single lesson each week, pupils will be taught across two rooms (workshop and computer room).</li> <li>Upcycling Lamp</li> <li>Week 1 -</li> <li>Review of learning so far - What can they remember from Year 7?</li> <li>What are we doing to our environment? What damages our world? Introduction to the design project (Christian Values)</li> <li>6 R's product analysis</li> <li>Introduction to Bauhaus</li> <li>Task analysis; pupils investigate user needs for a lamp in order to identify and solve their own problem (Why do we need a lamp? Where this lamp could be used?)</li> <li>Design Specification to be written for their own user needs and wants.</li> <li>HL - Mood board based on the a specific designers - Josef Albers, Wassily Kandinsky, Marcel Breuer and Paul Klee</li> </ul>						
	Workshop		Τ7				
	<ul> <li><u>Group A</u></li> <li><u>Week 2 -</u></li> <li>Recap on Health &amp; Safety in the workshop</li> <li>What is a working drawing? Why is a working drawing important? (Gatsby)</li> <li>Begin building of the lamp. How to mark off measurements correctly. Use of hand tools and portable drills (Tool passport)</li> <li>Introduction to design of the lamp wrap (Review of DIRT from Year 7)</li> <li>Introduction to Production Log</li> <li><u>HL</u> – Complete x2 design ideas</li> </ul>		easurements correctly.	<ul> <li>Group B</li> <li>Week 2 –</li> <li>What is CAD &amp; CAM? How is it used in industry? (Gatsby)</li> <li>Introduction to Techsoft Design</li> <li>Name exercise on Techsoft Design (AfL on Techsoft Design)</li> <li>Introduction to design of the lamp wrap (Review of DIRT from Year 7)</li> <li>How to gain access to Techsoft Design at home</li> <li>HL – Complete x2 design ideas</li> </ul>			
	<ul> <li>Group B</li> <li>Week 3 -</li> <li>Recap on Health &amp; sa</li> <li>What is a working dra</li> <li>Begin building of the Use of hand tools and</li> <li>Introduction to Production to Production</li></ul>	fety in the workshop wing? Why is a working c amp. How to mark off me portable drills (Tool passp ction Log final wrap design? (AFL pe	easurements correctly? port)	<ul> <li>Introduction to of Te</li> <li>Name exercise on Te</li> <li>How to gain access to</li> <li>How to develop your</li> <li>HL – Complete Final Ide</li> </ul>	echsoft Design (AFL on Te to Techsoft Design at hom r final wrap design? (AFL	echsoft Design) e	
	washers / wingnuts)	p ent types of components us I portable drills (Tool passp	<b>、</b> · · ·	<ul><li>to develop textures</li><li>Development of CAD</li></ul>	xercises use of boundary fi DCAM knowledge and unde design on Techsoft Design	rstanding.	



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• HL	Review & Reflect - Production Log – Quiz on Health & safety (forms online)	<ul> <li>Review &amp; reflect on CADCAM (AfL exercise)</li> <li>What can you remember about electronics? (Quiz)</li> <li>HL – Complete Final Design wrap on Techsoft Design at home.</li> </ul>
	Oup B         eek 5 –         Continue to build lamp         Introduction to different types of components used (bolts / nuts / washers / wingnuts)         Use of hand tools and portable drills (Tool passport)         Review & Reflect - Production Log         – Quiz on Health & safety (forms online)	<ul> <li>Group A Week 5 –</li> <li>Techsoft Design – exercises use of boundary fill &amp; use of patterns, how to develop textures</li> <li>Development of CADCAM knowledge and understanding.</li> <li>Complete final idea design on Techsoft Design.</li> <li>Review &amp; reflect on CADCAM (AfL exercise)</li> <li>What can you remember about electronics? (Quiz)</li> <li>HL – Complete Final Design wrap on Techsoft Design at home.</li> </ul>
<u>Wa</u> • •	<i>oup A</i> <u>eek 6 –</u> Introduction to electronics – H&S (Single lesson) Begin to build circuit for lamp. (Tool passport) Continue to make lamp Review & Reflect - Production Log <u>-</u> - Fact file on basic electronics	<ul> <li>Group B</li> <li>Week 6 –</li> <li>Introduction to Onshape</li> <li>Development of Onshape skills – building the lamp on onshape.</li> <li>HL - Simple machines &amp; levers - What is the propose of a simple machine?</li> </ul>
<u>Wa</u> • • •	Beek 7 –         Introduction to electronics – H&S (Single lesson)         Begin to build circuit for lamp. (Tool passport) <u>Challenge</u> – putting a switch into the lamp         Continue to make lamp         Review & Reflect - Production Log         Fact file on basic electronics	<ul> <li>Group A Week 7 –</li> <li>Introduction to Onshape</li> <li>Development of Onshape skills – building the lamp on onshape.</li> <li><u>HL -</u> Simple machines &amp; levers - What is the propose of a simple machine?</li> </ul>
	<i>oup A</i> <u>eek 8 –</u> Review of learning – set targets for next project (DIRT) Finishing touches to lamp Photographs of final products Compete a 6R's evaluation on their product Complete Evaluation process on Final products.	<ul> <li>Group B</li> <li>Week 8 –</li> <li>Review of learning – set targets for next project (DIRT)</li> <li>Finishing touches to lamp</li> <li>Photographs of final products</li> <li>Compete a 6R's evaluation on their product</li> <li>Complete Evaluation process on Final products.</li> </ul>