

## KS3 Curriculum Intent

Intent		What new knowledge/c	content do we introduce?	How does this curriculum go	
By the end of KS3 students are able to		Each teaching group rotates around our 6 specialism in year 8 and 9		Curriculum? How does going beyond the NC ensure challenge?	
After following the complete rotation		Lesson sequence	Progression of knowledge and skill		
pupils will have;		<ul> <li>'I can research information in response to a design brief':</li> <li>Develop design research skills</li> <li>Become familiar with Art Deco and Steampunk</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Understand the design process, differences between design brief and specification</li> <li>Develop knowledge of design eras and styles (Art deco/steampunk)</li> <li>Become familiar with tools and processes used in CADCAM</li> <li>Understand the difference between CAD and CAM</li> <li>Apply learning to an existing product</li> </ul>	Students are able to build and connect	
<ul> <li>developed the</li> </ul>				knowledge over time	
technical and	s d ( ( ( ( ( ( ( ( ( ( ( ( (			by revisiting the design	
practical				process: research	
expertise needed to perform			RESEARCH / IDEAS / PLAN / MAKE / EVALUATE  • Look at existing products and suggest the target market	ideas, plan, make and	
everyday tasks confidently and to participate		<ul> <li>'I can develop my ideas using secondary research':</li> <li>Understand the difference between secondary and primary research</li> <li>Visually communicate using composition</li> </ul>	<ul> <li>Discuss customers preferences and how this influences their consumer habits</li> <li>Understand the importance of clear visual communication</li> <li>Understand the difference between primary and research methods</li> <li>Apply learning in creating a mood board for the design style of students choosing</li> </ul>	each specialism.	
successfully in an increasingly				Students will also	
<ul> <li>technological world</li> <li>build and apply a repertoire of knowledge, understanding and skills in order to design and make high- quality prototypes and products for a wide range of users</li> <li>critique, evaluate and test their ideas and products and the work of others</li> <li>understand and apply the principles of</li> </ul>		<ul> <li><i>'I can develop appropriate design ideas using research':</i></li> <li>Avoid <b>design fixation</b>, not immediately thinking of a final outcome</li> <li>Apply your knowledge of design movement to a product</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Know what design fixation is, how it affect the success of a design/er and how to avoid it</li> <li>Develop understanding of design as an iterative process</li> <li>Rapid design idea generation, discouraging design fixation</li> <li>Knowing how to modify a singular design idea in order to create several</li> </ul>	develop confidence using shared design concepts and vocabulary.	
		<ul> <li><i>'I can analyse the work of others':</i></li> <li>Evaluate what makes a successful or unsuccessful design</li> <li>Use your findings to develop your own ideas</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Build on knowledge from previous lessons, using products which are not 'relevant' to design brief to avoid design fixation</li> <li>Students use the acronym ACCESS FM to evaluate designs, this encourages their analysis to consider many different factors of design</li> <li>Developing their own design ideas using what they have learnt during the lesson, additional developing their annotation skills using ACCESS FM</li> </ul>	Students are challenged through the range of specialisms they will experience, allowing them to	
		PROGRESS REVIEW	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Assess knowledge of design concepts taught in previous lessons</li> <li>Develop research, ideas and planning in order to create a product which is successful, e.g. meets design brief and design specification</li> <li>Students discuss the impact of designing a product, which does not fit the above; design success, career &amp; profit.</li> </ul>	explore a wide variety of ways of designing and making using specialist technical	
		<ul> <li><i>'I can produce a final design in response to a design brief':</i></li> <li>Consolidate your research findings</li> <li>Produce a final design using visual communication skills</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Students consolidate all of their research and ideas to create a final design</li> <li>Annotated using ACCESS FM</li> <li>Students develop knowledge of visual communication skills; perspective, orthographic, exploded</li> </ul>	skills	

	nutrition and			<ul> <li>Introduce how designs are transferred into 2D design software</li> </ul>	We also offer
lear coo Pupils will also to problem so take risks, bed resourceful, ir enterprising a citizens. They a critical unde of design and on daily life ar world and how quality design essential cont the creativity, wealth and w the nation.	learn how to cook. Pupils will also learn how to problem solve and		<ul> <li><i>'I can produce a lay plan for laser cutting':</i></li> <li>Explain how to reduce material wastage</li> <li>Understand how to explode drawings in preparation for laser cutting</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Create a cardboard model of their product using design drawings</li> <li>Depending on colour schemes and material choices, explode the design to be suitable for 2D design/vectorisation</li> <li>Evaluate product and suggest steps for improvement in pext lesson e a</li> </ul>	additional opportunities such as
	take risks, becoming resourceful, innovative,			change scale. (depending on intended product outcome)	partnership with local
	enterprising and capable citizens. They will develop a critical understanding of design and its impact on daily life and the wider world and how high-		<ul> <li><i>'I can use 2D design tools':</i></li> <li>Accurately apply measurements</li> <li>Transfer physical designs into computer software</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>Describe the tools available in 2D and explain what they're used for</li> <li>Know how to trace an image in 2D design</li> <li>Know how to vectorise an image in 2D design</li> <li>Develop knowledge of computerised software, which utilises vectors.</li> <li>Accurately apply measurements and tolerances.</li> </ul>	architecture firms and the University of Cambridge
	quality design makes an essential contribution to the creativity, culture, wealth and well-being of		<ul> <li><i>'I can use vector tools in 2D design':</i></li> <li>Troubleshoot problem in 2D design</li> <li>Apply quality control techniques</li> </ul>	RESEARCH / IDEAS / PLAN / MAKE / EVALUATE <ul> <li>Continue to apply learning from previous lesson to produce a 2D design file which will accurately produce final outcome on a laser cutter</li> </ul>	Design Ventura competition
	the nation.		<ul> <li><i>'I can design appropriate product marketing tools':</i></li> <li>Apply understanding of target market</li> <li>Communicate USP's of product</li> </ul>	<ul> <li>RESEARCH / IDEAS / PLAN / MAKE / EVALUATE</li> <li>To complete whilst product are being laser cut</li> <li>Students should be able to communicate who their customer is and create resources that appeal to them</li> <li>Students peer evaluate work to identify unique selling points.</li> </ul>	Drop down food days Extra-curricular music technology club
			<ul> <li><i>'I can construct a prototype':</i></li> <li>Apply quality control techniques</li> </ul>	RESEARCH / IDEAS / PLAN / MAKE / EVALUATE <ul> <li>Construct prototype using appropriate joining methods</li> <li>Compare outcome against design brief, specification and final design</li> <li>Develop knowledge of materials, timber and plastic</li> </ul>	Weekly After school art / textile club
			<ul> <li><i>'I can evaluate a prototype':</i></li> <li>Collect client and consumer feedback</li> <li>Evaluate a product against a design brief and specification</li> </ul>	RESEARCH / IDEAS / PLAN / MAKE / <b>EVALUATE</b> <ul> <li>Have you met the design brief?</li> <li>Have you met the design specification?</li> <li>Have you avoided design fixation?</li> <li>What went well/Even better if</li> </ul>	

		Lesson sequencing follows the design cycle of research, ideas, plan, make and evaluate. This embeds the concept of	
		design iteration with students and encourages a continuous process of design. In a real world design situation, this would	
		ensure that the product design is suitable for purpose and will sell successfully. All skills build on each other as the project	
		progresses to scaffold learning and ensure that all learners design and make a successful prototype. CAD software is	
		introduced once all learners have practiced marking and measuring methods, this supports students in transferring their	
		physical designs into computer-aided software, where some of the skills are harder to visualise; e.g. scale.	
	Rationale for		
	sequence		
	How does the KS3	Students come to us with mixed knowledge and skills from KS2 so we build on prior learning, establishing a use of the	
	Curriculum	design process and building on shared concepts and vocabulary throughout the two-year rotation. All with a focus on	
	previous	enjoying practical experiences. We also build on learning in KS3 Art lessons.	
	learning at KS2?		
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