3D Design Curriculum Map



2025-2026	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	All about me Baseline Assessment Health & Safety in the	Materials Explore the properties of materials	Protect and Survive Know how historical design periods have	Systems and control Learn how components work together to make	Strengthening and enhancing materials Learn how to stiffen, fold	Flight Aviation, kites and boomerangs
	work place Recognise hand & machine tools and their uses	Material testing and evaluation Understand the difference between	influenced how we life today. e.g. Pre industrial revolution, The Industrial Revolution, Arts and Craft	structures Understand how motion can be used in design Assemble simple	and bend materials, particularly for modelling Construct 3D objects using a net	Learn how early attempts at flying shape the way
	Understand safety tests Learn about cultural design and manufactured boards	softwood and hardwood and their uses	Movement, Art Nouveau Know how designing should take account of adverse circumstances	electrical components Use circuits in designs Practical project:	Learn how different cultures incorporate sustainabiity into their living environments	Aerodynamics and hydrodynamics Learn how kites have been used over time
	Practical project: Make a bullroarer	and finish	incl. natural disasters, and climate change Practical project: Egg drop challenge Castles/Garages/Animal	Morse Code Machine	Practical project: Design and make a 3D sustainable living model from suitable materials	Use tools to cut and shape to enable flight The influence of culture on the design of boomerangs
			Shelter			Practical project: Design, make and fly a kite Design, make and fly a boomerang safely and effectively.
Year 8	Sustainable vessels Recognise ancient monuments around the world, understand their design features,	World War 1 Learn how technology advanced rapidly due to conflict Camouflage- identify it	The Natural World Mark out, cut, shape and join timber Recognise and use hand and elctric tools. Use	Canals and culture The history of the canal system and how this shaped the way goods were transported before	Environment, sustainablity and impact Understand how designers and manufacturers have a	Sustainable living Learn about the changes in climate and resources impact on the way we live
	construction and intended uses Learn how early trade routes shaped the world economy through the import and export of goods	and its uses in nature and in man-made design Practical project: Make a periscope and/or wooden tank	tools safely Drill holes accurately and to the correct depth using the bench drill Use adhesives to join wood togther	the invention of the steam train Learn about canal families, how they lived and worked Learn about the design and decoration of a	responsibility for sustainable product design which have a low impact on the environment and are deisgned to not harm	Learn about sustainable energy and its use Practical project: Use appropriate tools, materials and
	Interpret instructions and images and understand that these forms of communication are open to interpretation		Practical project: Make a habitat box (e.g bird box)	traditional canal boat and the importance of design in small space living Graining	Understand the impact that manufacturing can have on the environment and health	techniques to design and model sustainable living space
	Practical project: Design, make and test a sustainable vessel			Practical project: Design and make a footstool. Use specialist tools and techniques to create the graining		
Year 9	Introduction to 3D design Architecture Jewellery & body art The role of an architect The development of architecture through history Carry out research to inspire own design Jewellery & body art	Sculpture Ceramics The role of the sculptor How scuplture is used to enhance Employment in the area of sculpting Different types of ceramics, how they are created & their uses	3D Digital Design Interior Design The role of a designer Employment in area of interior design Practical project: Use a 3D software package to design and interior space	Environmental Landscape/ Garden Design Product Roles in environmental design Learn how the environment can be designed to enhance and manage certain human behaviour, wellbeing & health	Exhibition Design Theatre, film & TV Design Marketing & promotional industry, e.g. display stands, trade shows Employment in marketing & the promotional industry Practical project:	Revisit areas which the pupils would like to complete or improve Introduction to AQA 3D Design GCSE
	throughout history Design own body adornment Employment in the area of jewellery and body adornment	Employment in the area of ceramics Create a simple jig to form a repeated process for batch production Practical project:	Create a 3D model reflective of their design using a mixture of materials		Create a design for a promotional space, design their own logo	
	Practical project: Design own prototype of jewellery & body adornment using a simple template	Design and make a simple tile to a set size and depth to represent a manufactured tile		Practical project: Design a purposeful outdoor space, balancing natural and man made materials		
Year 10	GCSE Sustained Project The project set is reflective of the interest of the pupil Realise personal intentions Use the creative process Develop & explore ideas Make annotations, communicating intention, response	GCSE Sustained Project continued	Exam preparation Independent study Record observations	Exam preparation Independent study Record observations	Exam Preparation GCSE Exam	GCSE Sustained project External moderation
Year 11	GCSE Sustanined Project- Final Piece Theme set dependent on the interests of the pupil	Mock exam (5hrs) Final piece to sustained project.	Exam preparation Independent study Record observations	Exam preparation	GCSE Exam Internal moderation Portfolio completion External moderation	