Design and Technology Curriculum for KS4 stage 2024-25

Following the AQA GCSE DESIGN AND TECHNOLOGY (8552)

Year	Autumn Term		Spring Term		Summer Term	
	First half	Second half	First half	Second half	First half	Second half
Year 10 Theory	Designing and making principles Designing principles -Investigation, primary and secondary dataEnvironmental, social and economic challenge.	Designing principles Continued. -The work of others. -Design strategies. -Communication of design ideas. -Prototype development.	Making principles -Selection of materials and componentsTolerancesMaterial managementSpecialist tools and equipmentSpecialist techniques and processes.	Core technical principles New and emerging technologies -New and emerging technologies. Energy, materials, systems and devices -Energy storage and generationDevelopments in new materialsSystems approach to designingMechanical devices. Materials and their working properties -Materials and their working properties.	Specialist technical principles Common specialist technical principles -Forces and stresses. Ecological and social footprintScales of production. Specialist material areas Timber based materials -Selection of materials or components Materials coveredSources and originsUsing and working with materialsStock forms, types and sizesSpecialist techniques and processesSurface treatments and finishes.	See NEA tasks
Year 10 Practical	Practice NEA Tasks Identifying	Practice NEA Tasks Generating design ideas	Practice NEA Tasks Developing design ideas	Practice NEA Tasks Realising design ideas -Planning for	Practice NEA Tasks Analysing and Evaluating -Testing.	NEA tasks Identifying design possibilities.
	design possibilities -Exploring the design contextThe role of the designer.	-Scruffiti and JackstrawsDraw an existing productInspiration from nature.	-Develop multiple ideas and iterationsThe iterative design processMethods of development.	manufactureWorking DrawingCutting ListPlanning your timeQuality assurance and Quality Control.	-EvaluationSWOT AnalysisModificationsEvidences. Communication -PresentationWrapping it all up.	Generating design ideas.

ractical	design ideas.	ideas.	Analysing and Evaluating.	Evaluating. Communication.		
Year 11 Practical	NEA tasks Developing	NEA tasks Realising design	NEA tasks Realising design ideas.	NEA Tasks Analysing and	N/A	N/A
Theory				<u>practice</u>	practice	21/4
Year 11	See NEA tasks	See NEA tasks	See NEA tasks	Revision and exam	Revision and exam	Study leave
	specification.					a
	-Writing a design					
	research.		-Animation.			
	-Analysing the		-Rendered model.			
	research.		-CAD.			
	purpose of		-Hand drawn.			
	-Methods and		design phase.			
	brief.		-Completing the			
	-Analysing the		-Prototype.			
	design brief.		-One Off.			
	-Writing your		-Model.			
	markets.		Prototype.			
	exclusive	-CAD models.	-Model, One -Off or			
	-Inclusive and	-Freehand Sketching.	considerations.		(Citi)	
	-Consider your target market.	-Limit the time you spend on one idea.	-Modelling. -Material	-Rapid prototyping.	-Candidate Record Forms (CRF)	
	or user.	abstract or surreal.	drawing.	manufacture.	folder.	
	-Choosing a client	-Try something	-Good old -fashioned	-Record of	-Formatting your digital	