

Curriculum Map: DESIGN TECHNOLOGY

In DT during KS3 students will develop an understanding using machinery and tools safely so they can work practically to create handmade outcomes. They will learn to think about the suitability of designs from the world we live in and how designing to solve problems can have real impact in improving the life of the consumer. They will have an opportunity to reflect on a wide range of materials and their uses and applications. Develop technical drawing skills to communicate design ideas and functions. Learn how sometimes designing and making things takes time and needs us to be resilient so that the quality or problem we are solving is successful. Recognise the feelings we gain from making and how it can apply to areas of our life. Students will be challenged to 'be inventive' and make models that work! They will develop an awareness that design surrounds us and it can be used to make a difference.

KS2 NC	Time	7	8	9	TIME	10	11	KS5	Careers
				2 1122 2 1 1 1					
Design	20	Health and Safety in	Re-cap Health and	Recap H&S – Create an info	Autumn 1	H&S,	Continuation of	Students have	Product
1 use research and develop	Week	the workshop	Safety - Mind map	sheet with QR code		Use of tools, equipment,	Design project	the opportunity	Designer
design criteria	time	D	Combine Insuin	Containability CD/s		quality of finished products		to extend their	Engineer
2 generate, develop, model	frame	Dyson project –	Graphics – Iconic	Sustainability – 6R's		Workshop knowledge &	AO2 Exploring	studies into 3D	Architect
and communicate their	for Y7 -	spaghetti tower	Designer Factfile	Isometric drawing		practice developing	materials, testing	Design at Loreto	Construction
ideas Make	Y9	total attack to be at	Impact of a designer	One-point perspective		confidence and knowledge	and investigating	college.	site manager
		Introduction to basic	on the field of Design	2 point perspective		of workshop equipment	AO3 Hand drawn	C I(1 C) C :	Bricklayer
1 select from and use a	Sept to	circuits – squeezy	Technology.	Architecture – Project 3d		including hand tools, power	plans, elevations,	Salford City Skills,	Carpenter
wider range of tools and	Feb	torch	Barta talka kala ad	card modelling		tools and cutting tools	cross sections &	Bury College &	Bim
equipment 2 select from and use a	0R	Introduction to	Design in the Natural	Environmentally friendly		available to the pupils.	3D digital plans.	Manchester	Technician Trade based
	Feb to		world	housing/shipping container		Knowledge building -	Digital designing	College offer trades-based	
wider range of materials and components	July	material - plastics	Biomimicry Smart materials -	Modelling – Hatch Project		Sampling:	to support laser	learning	roles
Evaluate	July	Make Key ring	Modern materials	'Crazy Contraptions' Problem		Measuring, cutting and finishing of shapes,	cutting	learning	
		Introduction to wood					cutting		
1 investigate and analyse a		Make glasses holder	Design to solve a problem – Fashion	solving to meet the needs of a consumer – Richard	Autumn 2	investigating paints and	AOA C		
range of existing products 2 evaluate their ideas		iviake glasses noider	item for the dark?	Hammond TV Programme	& Spring 1	dyes, comb joint, mitre joint, ½ lap joint, use of the	AO4 Creating a		
3 understand how key		Graphics –	item for the darks	Create a novel way to solve a		vacuum former, line	final outcome &		
events and individuals in		Infographics/		problem – wacky creations in		bending of acrylic, looking	based on chosen		
design and technology have		product development/	Re-cap materials –	the style of Richard		at textures and	theme &		
helped shape the world		analysis	wood /plastics	Hammond or Wallace and		experimentation.	investigations		
Technical knowledge		allalysis	Flat pack animal for a	Gromit		experimentation.			
1 apply their understanding		Textiles – Make do	child to be sold in a	Gronnit					
2 understand and use		and Mend	zoo gift shop	Test/ Assessment	Spring 2	Mini 5 hour assessment –	Prep for		
mechanical systems in their		Repair a garment/hole	200 girt snop	Recap of knowledge learnt	until end	Feb	controlled		
products		Repair a garment/ note	Test/ Assessment	during the module. Evaluate	of Summer	DT Brief – 2 design	assessment		
3 understand and use		Microbit Programming	Recap of knowledge	the successfulness of their	Term	problems to choose from to	Students select		
electrical systems		Wilcrobit Frogramming	learnt during the	individual learning and		design and make a finished	from exam briefs		
4 apply their understanding		Test/ Assessment	module. Evaluate the	identify their next steps.		product	provided by the		
of computing to program,		resty Assessment	successfulness of their	identity their next steps.			board and pursue		
monitor and control their			individual learning and			AO1 Research	investigations to		
products			identify their next				meet objects		
products			steps.				AO1,2,3,4 final		
			эсерэ.				outcomes over a		
							10 hr controlled		
							exam period		

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