## CURRICULUM PROGRESSION PATHWAYS

SUBJECT: DESIGN AND TECHNOLOGY

Quality of Education: Curriculum is planned and sequenced so that new knowledge and skills build on what has been taught before and leads towards a clearly defined end point.

Vision: We aim for our students to meet demands of an ever-changing technological world by building a repertoire of skills and knowledge that encourages creativity, independence, and reflective thinking.

HOD: Mr J Case	KS3:			KS4 GCSE AQA Design and Technology		<u>Further Education and</u> training, Careers
	Assessments:					
2022/23	Testing on theory and vocabulary. Evaluating- peer on peer assessment					
	Year 7	Year 8	Year 9	Year 10	Year 11	Vocational qualifications
Textiles	Project: Fully equipped	Project: Activity centre	Project: Upcycling			(BTECs, NVQ/SVQs,
Knowledge:	Recycling, Reusing, Texture,	Recycling, Reusing, Texture	Recycling, reusing, reducing,	AQA Design Technology	Non-exam assessment will	diplomas)
	Sensory - smart materials	Sensory - smart materials	repairing. Environmental issues	Introduction: Written exam: 2	contribute towards 50% of the	graphic design, fashion
	Engraving and printing	Engraving and printing	Material: various fabrics and	hours	student's overall mark. The	styling, art and design,
	Material: Calico, felt	Material: various fabrics and notions	notions	50% of GCSE 50% Practical	NEA project in its entirety	media, engineering,
<b>Fextiles</b>	Hand embroidery,	Applique, Fabric Pens, Hand	Applique, Fabric Pens, Hand	coursework NEA	should take between 30–35	photography,
Skills:	Embellishment, Applique,	embroidery, Templates, Patterns	embroidery, Templates, Patterns		hours to complete and consist	construction and building,
	Running stitch, Zig/zag, Couching,	Seams, Models/prototypes, Pillow	Seams, Models/prototypes, Zip,	Projects: Miniature chair and upholstery	of a working prototype and a	motor vehicle technology and repair
	Sewing machine driving licence	stuffing, Zip	buttons, lining, shoulder strap/belt,		concise portfolio of	
		5	fastening.		approximately 20 pages of A3	
Resistant	Project: Kinetic toy	Project: Mechanical device	Project: Fashion accessory	Knowledge:	paper, equivalent A4 paper or	Apprenticeships
materials	Planning, Timescales, Creative	3D printing , Intricate 2D designing	3D printing, Intricate 2D designing	New and emerging Technologies	the digital equivalent	product designer,
Knowledge:	designing	using CAD/CAM, Engraving methods,	using CAD/CAM, Engraving methods	Industry/ Enterprise /	Knowledge:	theatre set carpenter,
Kilowicuge.	Materials, Wood, Pine, MDF.	hand or machine	hand or machine, Metals, Design and	Sustainability	Designing and making	farrier, service technician
	Acrylic	Materials: Metal, Wood, plastic	Technology key designers and	Automation - technology	Electronic and mechanical	civil engineer, plumber,
	Activite	Waterials. Wetal, wood, plastic	industrial influences	push/market pull affects	systems	design and draughting
Resistant	Woodwork, CAD/CAM skills,	Woodwork, CAD/CAM skills,	Lathe both metal and wood. Pewter	choice. Changing job roles	Wood metals and polymers	technician. model maker
materials	Technical Drawing skills , Plastic	Technical Drawing skills, Plastic skills,	casting, CAD/CAM, 3D printing and	due to technological change.	Textiles	
	<b>u</b> .	<b>e</b>		Culture / Society /	Paper and board.	A levels
skills	skills, Sander, Pillar drill,	Sander, Laser cam, threading - tap	modelling, resin work	Environment /	Using materials efficiently	design and technology,
	Modelling/prototypes	and die, bright drawn mild steel rods		Production techniques and	Manufacturing	product design (3D),
Graphics/Product	Project: DIY Wrapper	Project: Celebration	Project: Presentation	systems	Specifications	product design (textiles),
design	Planning, Timescales, Creative	Working and physical properties of	Orthographic drawing, Lamination,	Critical evaluation of new and	Developing and prototypes	systems and control
Knowledge:	designing	paper and board – including smart	Manufactured boards, Wood	emerging technologies	Evaluation.	technology,
	Materials : paper and board –	materials, Tabs, CAD/CAM, Intricate	treatments and finishes, vacuum	informs design decisions		teennology,
	Different GSM card and	designs, Mass production	forming, inserts	Classification and properties	Skills:	Related subject:
	corrugated card	Silhouettes, Recycling		of Materials	Making design strategies	
		Materials : paper and board –			Prototype development	Art, graphic design, media
		Different GSM card and corrugated		Skills: Exam skills	Communication of design	music technology,
		card		Longer mark question	ideas - 2d and 3D	computing, maths, physic
Graphics/Product	Paper and board, Vinyl.	Bone creaser, Embossing, Scoring,	Woodwork, Creating nets, Vacuum	responses	Responding to exam	photography, sculpture,
lesign	CAD/CAM, Technical Drawing	Adhesive, craft knives, Models and	forming, Patterns, Laser cutting,	Practising reading and	criteria/questions	textiles, engineering,
Skills:	skills , Craft knife skills, Safety	prototypes	Typography	analysing exam questions	Creating a3 portfolio	architecture.
-	ruler, CNC, Vinyl cutting, Simple		,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	Designing and making joints	Structuring a body of work	
	vector, Modelling/ prototypes			under controlled conditions		
	vector, modeling, prototypes					