

KS3 Design Technology Curriculum Map

Students will be taught knowledge and skills through theory and practical applications. Each year the skills and knowledge will build on the previous year, either adding more skills and knowledge or consolidating the key aspects of Design Technology; Design, Make, Evaluate and Technical Knowledge as set out in the National Curriculum

Year 7	Keyring (5)	Passive Speaker (11)	Pop-up (11)		CAD/CAM Ruler (11)
	Workshop rules	Categories and characteristics of wood	Paper engineering		2D design tools
	Safe use of fixed machinery	Sustainability	Four types of motion		Using the laser cutter
	Intro to using hand tools	Safe use of Forstner bit	V folds, counterfolds, parallel folds, spiral		Designing
	Heating and shaping plastic	Hand tools	Die cutting		CAD Isometric
	Evaluation	Evaluation	Safe use of craft knives		Evaluation
Year 8	Tech drawing (6)	Memphis name plaque (12)	CAD/CAM (10)		Laminated Jewellery (10)
	Shading, Tone & Texture	Manufactured boards	Intro to Autodesk Inventor		Designing and Annotation
	One Point Perspective	Categories and characteristics of Plastics	Tools in Autodesk		Laminating
	Two Point Perspective	Vacuum forming	Design a robot		Hand tools and Machinery
		Hand tools			Polising and finishing
	Memphis design movement				
Year 9	Design Engineer Construct (10) 15 lessons	Pewter Casting (10) 15 lessons	Dyson (2) lessons	3 Tech Drawing (6) 9 lessons	CAD/CAM (8) 12 lessons
	Modelling CAD Formit	CAD/CAM	Product analysis	Isometric Projection	Autodesk portfolio
	Design an eco classroom	Categories and characteristics of Metal	Developing designs	Orthographic Projection	Design a chess piece
		2D Design	Disassembly	Dimensioning	Intro to 3D printer
		Designing		Rendering	
		Gravity Casting			
	Finishing and Polishing				