

Long term Plan – 2026-27 - Design and Technology

Year 7

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 31/08	07/09/	14/09	21/09	28/09	05/10	12/10	02/11	09/11	16/11	23/11	30/11	7/12
	Health & Safety	Health & Safety	Health & Safety	Health & Safety	Health & Safety	Health & Safety	Papers and Boards	Papers and Boards	Papers and Boards	Papers and Boards	Papers and Boards	Papers and Boards	Polymers
	Introduction to Design and Technology	Hazard, Risk and Control Measure	Using tools and Equipment Marking out material	Shaping Material Safely	Assembling and Testing Assessment	Interleaving	How paper is made Properties of paper and card	Typography and image	3D Nets Drawing Techniques	Drawing Techniques	Drawing Techniques Assessment	Interleaving	Thermoforming Industrial processes
Cycle 2	W/C 14/12	04/01	11/01	18/01	25/01	01/02	08/02	22/02	01/03	08/03	15/03	22/03	12/04
					Formal Assessment	Formal Assessment							
	Polymers	Polymers	Polymers	Polymers	Polymers	Polymers	Fabrics	Fabrics	Fabrics	Fabrics	Smart Materials	Smart Materials	Smart Materials
	Thermosetting	Production Processes Production Methods	Environment	Using tools and Equipment Scales of Production	Environment	Assessment Interleaving	Natural Fibres	Basic Stitches Synthetic fibres	Applique	Blended Materials Assessment	Smart Textiles	Technical textiles Biomimicry	Biomimicry
Cycle 3	W/C 19/04	26/04	03/05	10/05	17/05	24/05	07/06	14/06	21/06	28/06	05/07	12/07	19/07
							Formal Assessment	Formal Assessment	Formal Assessment	Formal Assessment			
	Smart Materials	Programming	Programming	Programming	Programming	Programming	Programming	Mechanisms	Mechanisms	Mechanisms	Mechanisms	Interleaving	Interleaving
	Assessment Interleaving	Electronic circuit	Electronic Systems & Flowol Systems in Practice	Circuit Design Breadboards	Introduce Crumble Crumble Programming	Robotics	Assessment Interleaving	Motions Levers	Gears Pulleys	Cams Linkages	Assessment Interleaving	Based on Assessment scores	Based on Assessment scores Retesting

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Year 8

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Cycle 1	W/C 31/08	07/09/26	14/09	21/09	28/09	05/10	12/10	02/11	09/11	16/11	23/11	30/11	7/12
					Formal Assessment	Formal Assessment							
	Electronics	Electronics	Electronics	Electronics	Electronics	Electronics	Electronics	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology
	Energy Sources	Circuit Design	Electronic components and symbols	Soldering Safety	Night Light Circuit	Night Light Circuit	Interleaving	4C's of Hygiene	Macronutrients	Food provenance	Practical pasta salad	Sustainability	Demonstration curry Health issues
		Assessment Energy		Night Light Circuit		Assessment Electronics		Contaminants		Demonstration Pasta Salad		Environment Assessment	
Cycle 2	W/C 14/12	04/01	11/01	18/01	25/01	01/02	08/02	22/02	01/03	08/03	15/03	22/03	12/04
	Food Technology	Food Technology	Timbers	Timbers	Timbers	Timbers	Timbers	Timbers	CAD	CAD	CAD	CAD	CAD
	Practical curry	Practical Granola bars	Hardwoods and softwoods	Workshop skills	Finishes	Manufactured Boards	Workshop skills	Interleaving	Introduction - Computer Aided Design	Isometric drawing	Autodesk advanced shapes	Autodesk - Orthographic Drawing	Autodesk - Orthographic Drawing
	Granola demo and food assesment		Joining Timber		Adhesives		Assessment		Autodesk basic shapes		Introduction to Orthographic Drawing		Scales of Production
Cycle 3	W/C 19/04	26/04	03/05	10/05	17/05	24/05	07/06	14/06	21/06	28/06	05/07	12/07	19/07
							Formal Assessment	Formal Assessment	Formal Assessment	Formal Assessment			
	CAD	CAD	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Drawing Techniques	Drawing Techniques	Drawing Techniques	Drawing Techniques
	New Technologies	New Technology Assessment	Ferrous and non-ferrous metals	Forces & Properties	Industrial Processes	Assessment	Casting Project	Casting Project	Interleaving	Design Principles	Isosketch design – Tone and Texture	Annotate design to match specification	Complete second design and apply tone and texture
		Interleaving		Metal finishes		Casting Project		Evaluating		Isosketch Recap		Oblique drawing and design	

Year 9

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 31/08	07/09/26	14/09	21/09	28/09	05/10	12/10	02/11	09/11	16/11	23/11	30/11	7/12
					Formal Assessment	Formal Assessment							
	Textiles	Textiles	Textiles	Textiles	Textiles	Textiles	Textiles	Textiles	Textiles	Christmas Markets	Christmas Markets	Christmas Markets	Food Technology
	Renewable energy sources	Technical textiles	Smart materials	Tie dye and design ideas	Design ideas and specification	Machine applique	Sewing the side seams	Adding decoration to the bag	Adding decoration to the bag	What is enterprise?	Christmas Enterprise Project	Christmas Enterprise Project	Hygiene practices
	Natural, regenerated and synthetic fibres		Test on fibres, energy, smart and technical.		Threading the sewing machine		Creating channel and drawstring		Sew bags together		Christmas Enterprise Project		macronutrients
Cycle 2	W/C 14/12	04/01	11/01	18/01	25/01	01/02	08/02	22/02	01/03	08/03	15/03	22/03	12/04
	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology	Food Technology	Engineering	Engineering	Engineering	Engineering	Engineering
	Micronutrients - Vitamins	Focaccia practical 1	Micronutrients - Minerals	Nutrient research	Food bacteria	Food Assessment	Dovetailing a recipe	Types of establishments	Introduction to Engineering	Engineering Tolerance	Third Angle Orthographic to Scale	Isometric Drawing by Hand	Autodesk Isometric
	Focaccia Demo	Focaccia practical 2	Lemon drizzle demo	Lemon drizzle practical	EHO	Chicken Kebab demo	Chicken Kebab practical	Types of services		Third Angle Orthographic Projection		Autodesk Isometric	
Cycle 3	W/C 19/04	26/04	03/05	10/05	17/05	24/05	07/06	14/06	21/06	28/06	05/07	12/07	19/07
							Formal Assessment	Formal Assessment	Formal Assessment	Formal Assessment			
	Engineering	Engineering	Engineering	Engineering	Product Design	Product Design	Product Design	Product Design	Product Design	Product Design	Product Design	Product Design	Product Design
	Autodesk Orthographic Projection (template)	Assessment Lesson	Autodesk Assembly Task (drawing parts)	Autodesk Assembly Task / Introduce other Autodesk Features (inc. Revolve/Presentation/Visual Style)	Soft & hardwood, manufactured board types and properties	Stockform, standard components	Nets, papers and boards	Designs for base - isometric	Rendering and shading and vacuum forming of shade	Electronics for light	Electronics and attach to light shade	Assemble and finish	Assemble and finish
	Autodesk Orthographic Projection (British Standards)		Autodesk Assembly Task (joining and constraining)		Ferrous & non ferrous, alloys and metal types and properties		Assessment		Final full design of lamp in isometric		Strip heater and base cutting		Evaluation