





Designer Lantern

The BIG Picture

Learning Objective: Work with a wide range of processes and materials SO THAT you further develop your design, making and evaluating skills while building your technical knowledge.

- Build your technical knowledge and practical skills using specialist workshop and industrial equipment.
- Further develop your drawing skills so that you can communicate design idea in 2D & 3D.
- Further develop your CAD skills to design in 2D & 3D
- · Develop your materials knowledge
- An introduction to 3D CAD, electronics and the work of designers.

Assessment: During this project, you will be formally assessed on the four main stands of the national curriculum (designing, making, evaluating & technical knowledge). The assessments will be a mixture of skills based and knowledge-based tasks. You will reflect on your assessments by identifying your successes and the elements you could improve.





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Key Terminology

Design Technology Skills		Project Skills		
 Resilience Perseverance Independence Teamwork Health & Safety Quality Control Problem solving Iteration Design Movements 	 Research Designing Modelling Assembling Making Manufacturing Critique Analysis Evaluating 	 Measuring Marking out Cutting Half lap joint Mitre joint Dowell joint Drilling Shaping Isometric drawing Iterative design 	 CAD / CAM Threading Machine Sewing Heat Transfer Sublimation Printing Pattern Cutting Zig-zag stitch Hems Electronics Sewable circuit 	

Favringsont C Materials						
Equipment & Materials						
2D design	Inventor					
(2D CAD software)	(3D CAD software)	Heat Press	Band Facer	Pillar Drill		
		• FREEZE.		Co.		
Glass Paper	Steel Rule	Try Square	Bench Hook	Tenon Saw		
	LED	0.00		fore		
Mitre Saw	(Light Emitting Diode)	Battery Cell Holder	Conductive Thread	Circuit		
		S. Comments				
Sewing Machine	Bobbin	Fabric Shears	Needle	Thread		
Vilene (Bonded Fibres)	Pine (Softwood)	Dowel (Pine - Softwood)	Teak (Hardwood)	MDF - Medium Density Fibreboard (Manufactured board)		