Design Technology

KS3 Learning Journey

Year 7

Make	LEARN	DO
Maze project	Keeping safe Drawing techniques Wasting materials Computerised graphics	Health and Safety Drawing skills Measuring Marking Out Cutting Adhesives Clamping Working from scanned files Evaluation
Clocks	Keeping Safe Drawing techniques(orthaganol) CAD/CAM Design Theory	The work of others production planning 2D Design Orthographic drawing 2d design Man-made boards Finishing man-made boards Evaluate against a specification
Pencil Box	Materials Jointing Jigs Finishing.	Isometric drawing Marking out joints Cutting Joints Machine sanding Finishing Adhesion Wasting Pillar drill Jigs Cutting metal Varnishing

Design Technology

KS3 Learning Journey

Year 8

Make	LEARN	DO
Mechanical toy	Types of motion Mechanisms Mechanical advantage CAD/CAM Construction Methods using CAM	Health and Safety Drawing skills Measuring Marking Out Cutting Adhesives Clamping Surface finishes Evaluation
Night Light	Electronic components Soldering theory soldering practice Drawing Techniques(perspective) The work of others Knock down fittings	Product anaylasis Electronic components Plastic theory Soldering Electronic systems Electronic Components Electronic Circuits Scale of production Knock down fittings
USB Cover	Plastics theory 3d Printing types 3d printing software Designing for 3d printing	Target Market existing products plastics production 3d Drawing 3D printing techniques sketch planes extruding constraints plastics properties

Design Technology

KS3 Learning Journey

Year 9

Make	LEARN	DO
Jewellery	Metals Theory Casting Process Mould making Metal finishing	Charles R Mackintosh design Materials (Metals) Casting CAD Mould production Product evaluation
Amplifier Project	Resister values Capacitors Living hinges Drawing Techniques(isometric) The work of others	Work of others Soldering Electronic systems Electronic Components Electronic Circuits CAD/ CAM 1950's America