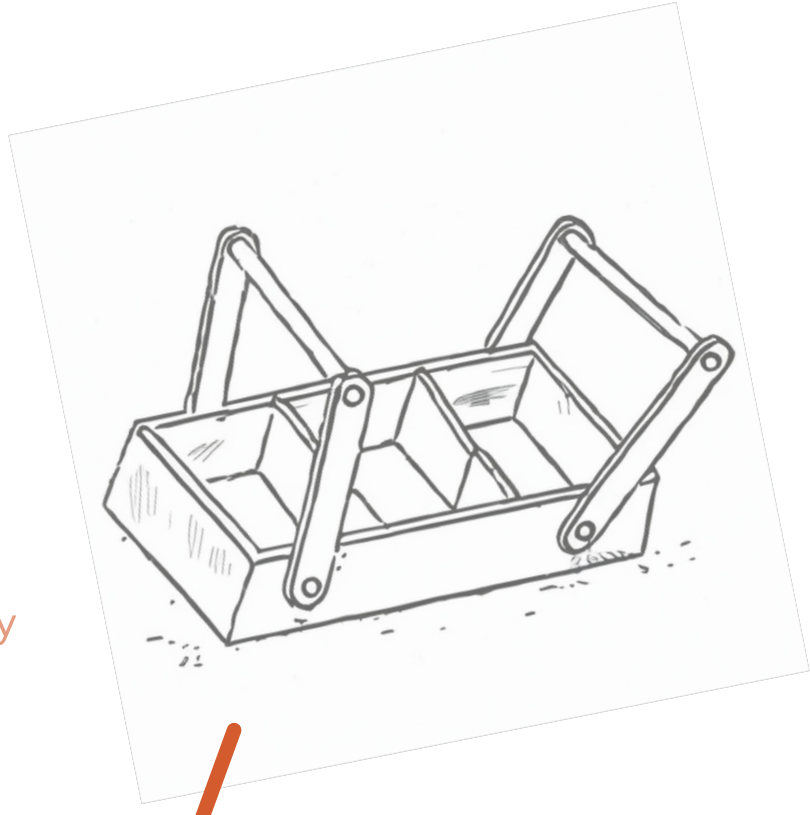




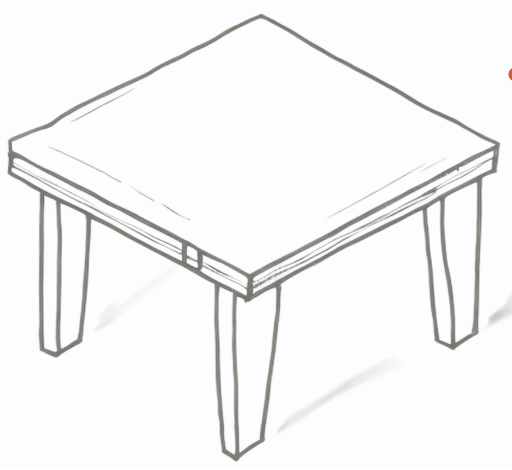
Metal Trowel

Measuring and marking metal
Cutting, drilling and filing accurately
Metal rolling, bending, forming
Fixings – rivets, spot welding
Dip coating



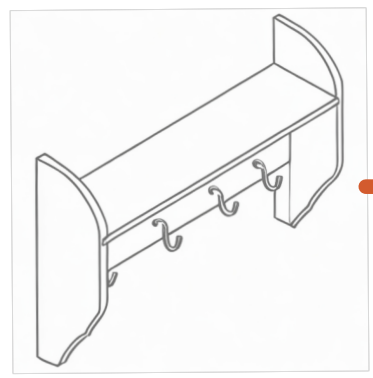
Oddment Box

Stopped housing joint
Rebate Joint
Rebate plane
Repetition and accuracy
Fixings – bolts



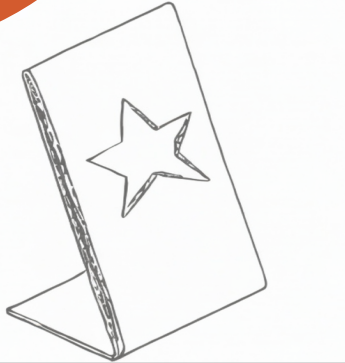
Side Table

Knock-down fixings
Achieving independence
Reading and interpreting
technical drawings



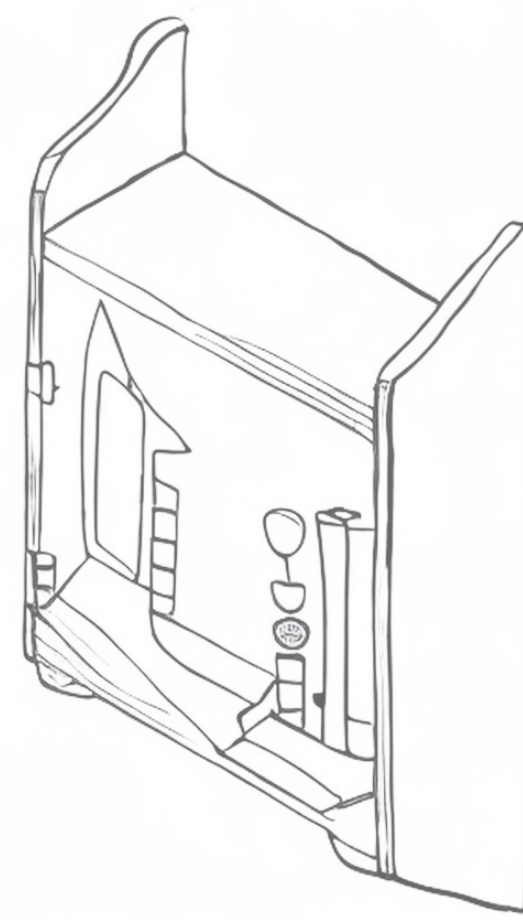
Shelf

Carcase construction
Housing joint
Cramping
Router planes
Varnishing



Picture Frame

Thermoforming Acrylic
Cutting internal shapes
Accurate marking
Finishing Edges

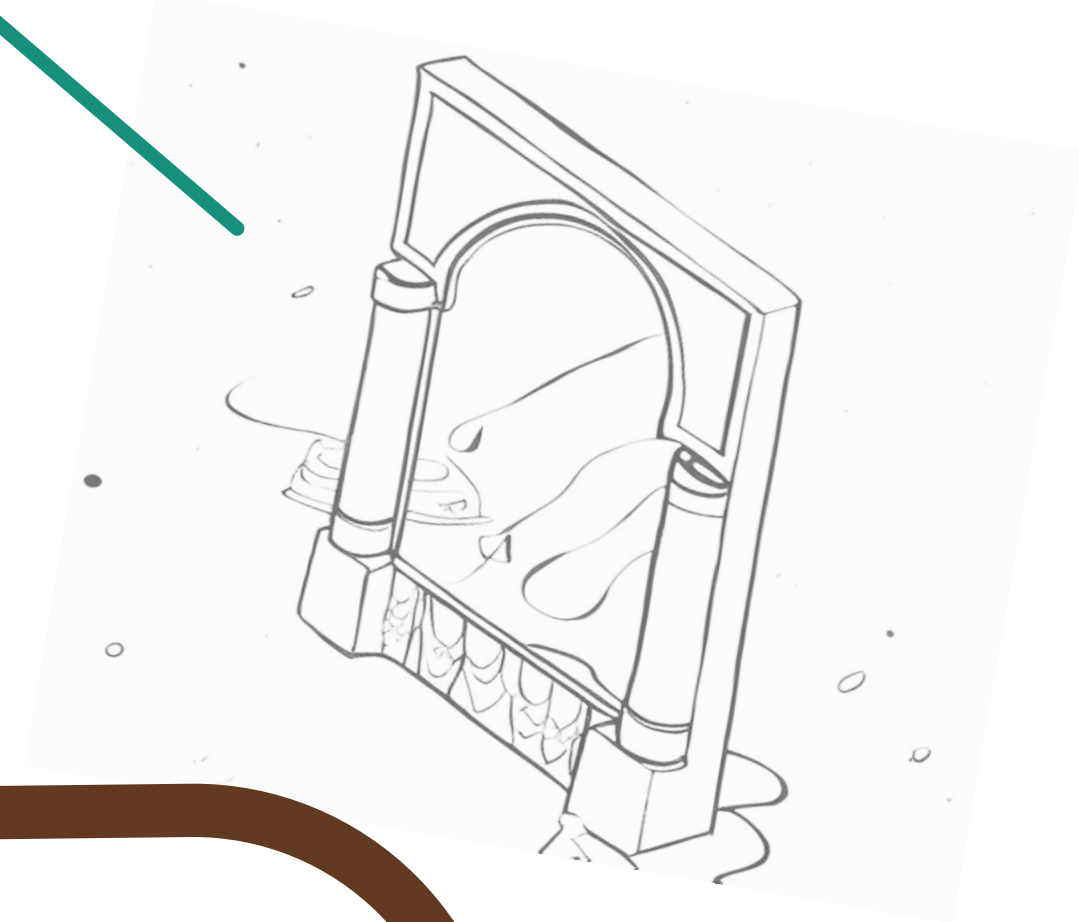


Cabinet

Environment & Aesthetics
Functionality
Market research
Detailed Specifications
Prototyping, Templates
Detailed design development
Carcase joinery
Stopped housing joint
Standard components
Sustainability

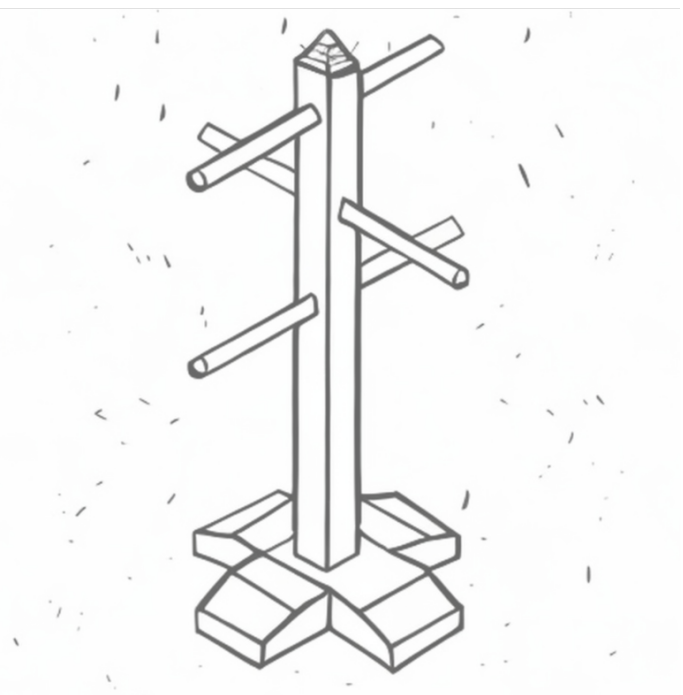
Mirror Frame

Design process & team
Informed specification
Ideation – thumbnails
Anthropometrics
Isometric drawing
Design development process
Planning – sequence of operations
Mortise & Tenon, Corner Halving
Pupil choice of plastics or metalworking
Evaluation techniques – survey



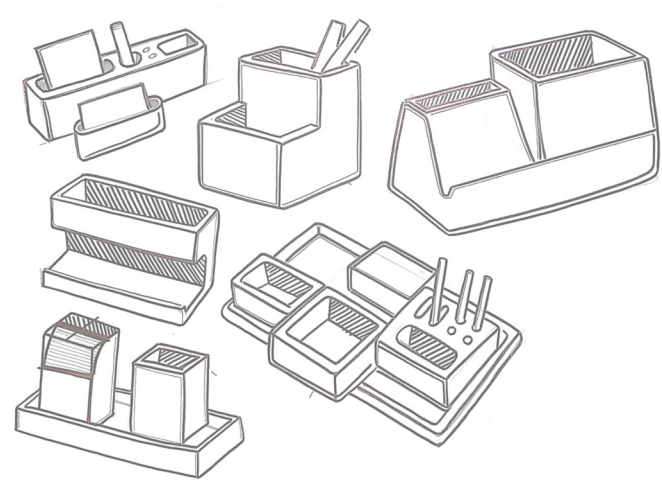
S3 practical craft

S3 design & manufacture



Mug Tree

Cross halving joint
Chisels
Bench planes
Dowels
Wax finishes

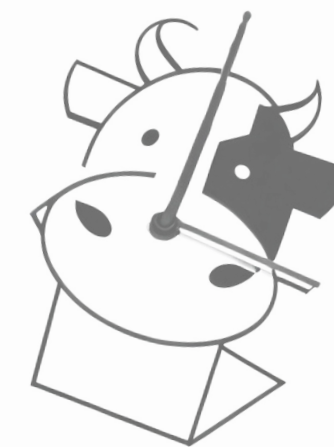


Desk Tidy

Influential designers
Aesthetics, function
Idea development
Ergonomics intro
Orthographic drawing
Plastics
Manufactured boards
Product Evaluations

Clock

Design process & factors
Specifications
Isometric Drawing
Idea generation – moodboards
Planning for manufacture
Presentation graphics
Metal properties
Basic metalworking



S2 design & manufacture



Built Environment Project

Consolidate core design skills
Orthographic drawing
Model making

Core Design Skills

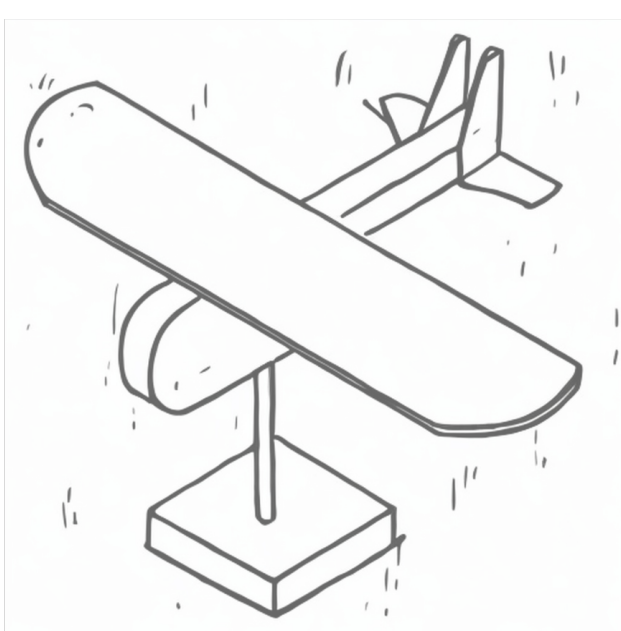
2D sketching fundamentals
Crating, scale, proportion
3D drawing – oblique
Rendering
CAD fundamentals
Drawing-board



S1 core skills

Toy Plane

Workshop Safety
Softwoods – types/properties/uses
Plywood – properties/uses
Advantages of Templates
Marking out right angles
Hand saws and saw-boards
Pillar drill & band facer
Bench planes
Pins & PVA

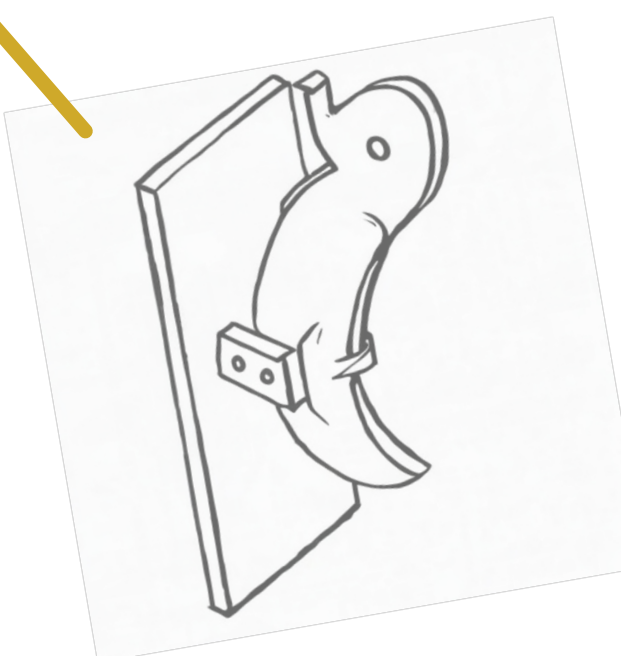


Pencil Case

Basic frame construction
Measuring & marking out
Marking parallel lines
Rebate Joint
Advanced Tenon Saw Technique
MDF – properties/uses
Grain direction & sanding
Fret saw
Fixings – screws

Door Knocker

Dowel joint
Bench planes – chamfers
Standard components
Safety & independence
Finishing wood
Wax finishes
Making templates
Sustainability – reuse & recycle



BGE Technical