



Task: Select from the chart the materials, tools and processes you will use in manufacture.

Materials	Marking Out	Hand Processes	Machines & Machine Processes	CNC	Joining	Finishing
<p>Woods Softwoods / Hardwoods Manufactured Board: MDF, Plywood, Chipboard, Hardboard Veneer</p>	<p>Manufacture Try Square Marking Gauge Sharp Pencil</p>	<p>Sawing (Tenon saw / coping saw) Sanding Scraping Chiselling/ paring Carving Drilling</p>	<p>Hegner (Powered Scroll Saw) Band facer Drilling Wood turning lathe Routing Mortising machine Biscuit jointer Laminating</p>	<p>CNC Router 1 2 Laser Cutter 1</p>	<p>A range of joints Adhesive: PVA Screws KD(Knock-Down) Fittings</p>	<p>Sanding Sanding Sealer Wood dye/ stain Wax polish Varnish MDF Primer/filler/ spray paint</p>
<p>Metals Aluminium Sheet Aluminium Bar Cast Aluminium Copper sheet Brass Sheet Brass rod Steel Sheet Steel Bar</p>	<p>Scribe Odd-legged callipers Centre punch Steel rule Engineers square Surface gauge</p>	<p>Drilling Filing Sawing (Hacksaw) Thread cutting Jewellery processes Shears / (Guillotine) Jewellery Rollers</p>	<p>Centre lathe (metal turning): Parallel turning, taper turning facing off, knurling. Forging Beating/ raising Drilling Milling Rolling Folding Soldering Brazing (Welding) Casting & Low temperature casting</p>	<p>CNC Router CNC milling</p>	<p>Brazing Riveting Pop-riveting Nuts and bolts/ machine screws Adhesive: Epoxy resin</p>	<p>Emery cloth Wet and dry Buffing Enamelling/ Cold enamelling Resin filling Dip Coating Painting Patination Enamelling</p>
<p>Plastics Acrylic Polystyrene (HIPS) ABS PP (Polypropylene) Styrofoam Nylon</p>	<p>Square Biro Printed Templates Laser etching</p>	<p>Sawing (Tenon, coping, junior hacksaw) Filing Scraping buffing Thread cutting Styrofoam: hot wire cutting, filing, sanding.</p>	<p>Vacuum forming Nylon: Turning, milling Thermoplastic: (Heating and Forming) Strip heater Vacuum forming Moulding- Plug and Yoke Drilling, sanding, filing, scraping,</p>	<p>CNC Router Laser Cutter 3D Printer 1 2</p>	<p>Adhesives: Epoxy resin Solvent cement Joints http://www.qrstuff.com/ Fittings</p>	<p>Wet and dry Scraping Buffing</p>
<p>Graphic Product materials PP/ HIPS/ ABS/ Acetate/ Balsa Foamboard Mountboard</p>		<p>Scalpel + cutting mat Hot wire cutter Foamboard cutter</p>	<p>Vacuum Forming Colour laser printer</p>	<p>CNC Router Laser Cutter Vinyl Cutter</p>	<p>Plastic fittings UHU general purpose glue Stick fasteners Velcro</p>	