Construction - Tools for Model Making

Hand Tools - Cutting

* Tenon Saw – To cut a straight line in wood
* Coping Saw – To cut a curved line in wood
* Junior Hacksaw – To cut small sections of metal

Hand Tools – Measuring

* Try Square – To get a line at right angles to the edge
* Zero-end Steel Rule – To get accurate measurements
* Veneer gauge – Used to check the thickness, depth & width of materials – used to check the dowel to select the correct sized drill and the measurements varied so much.

Machines

* Pillar Drill
  + - Drill Bit/ Chuck Key - For normal holes in all materials
    - Hole Cutter - For very large holes in wood
    - Forstner Bits - For holes between 15 to 50mm in wood
    - G Cramp - To hold work whilst drilling
    - Machine vice - To hold work up to 20mm whilst drilling
* Band Saw – to clean up curved edges in wood
* Circular Saw – to clean up straight edges in wood
* Mortising Machine – To cut a square hole in wood

Materials

* MDF – Medium Density Fibre Board – 4mm, 6mm, 10mm, 12mm
* Dowel – Wooden Rod made of Hardwood – 4mm, 6mm, 9mm, 12mm

Glues

* Woodworkers PVA glue – for all wood
* Epoxy Resin Adhesive – for all materials or mixing of materials
* Super glue – for all materials but small pieces
* Masking Tape – to hold items together whilst drying – We do not nail as this would normally split the wood especially MDF

Finishes

* Matt white emulsion paint – water based paint used for walls & as a base coat for the models
* Glass Paper – to help finish & clean wood down, always glass paper in the direction of the grain.
* Wet & Dry Paper – to help finish & clean wood and plastic down to very fine surface.
* Hand Files – used to shape metal and used here to help smooth wood
* Surforms – Like a hand file, but for wood