

Working with timber KNOWLEDGE ORGANISER

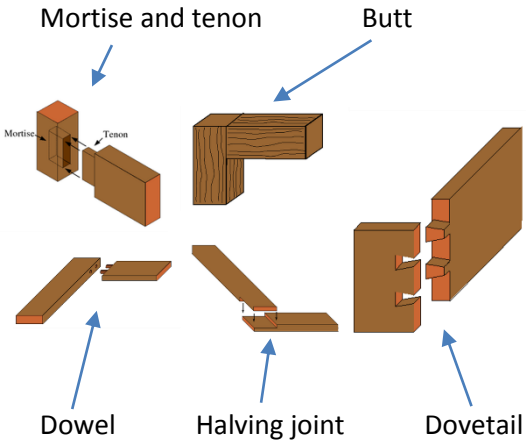
Categories of wood

Manufactured eg MDF, chipboard, plywood

Natural: Softwood- comes from evergreen trees such as pine, fir

Natural : Hardwood- comes from deciduous trees such as oak, sycamore, walnut

Wood joints



Properties of materials

Toughness – to be able to withstand sudden impact

Elasticity – to be able to flex and bend

Hardness – to be able to resist abrasive wear

Durability – to be able to withstand wear and tear such as corrosion

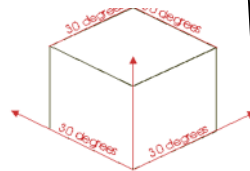
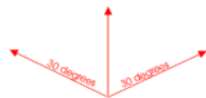
Stability – to resist changes to size/shape due to environment, such as heat, moisture etc.

Thermal conductivity – how easily heat flows through the material

Electrical conductivity – allow current to pass through the material easily

Design ideas

Isometric drawing is another way of presenting designs/drawings in three dimensions. The example below has been drawn with a 30 degree set square. Designs are always drawn at 30 degrees in isometric projection.



Making

Safety in the workshop

Tools: tenon saw, mallet, chisel, try square, ruler, bench hook, vice, pencil