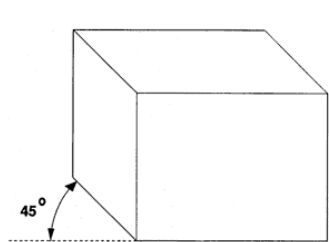
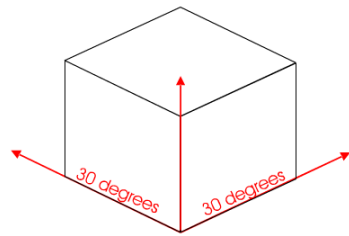


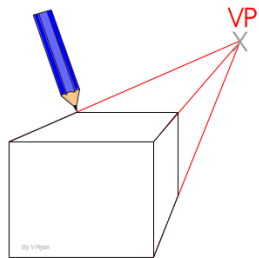
Developing Sketching techniques



Oblique Drawing



Isometric Drawing



One point perspective drawing

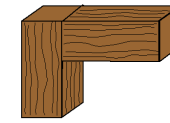
DT Keywords

Research, analyse, design, develop, plan, consider, sketch, annotate, evaluate, render, join, modify, manufacture, health and safety.

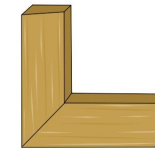
Year 8

Resistant Materials

Woodworking Joints



Butt Joint: a technique where two pieces of material are joined by simply placing their ends together and gluing in place.



Mitre Joint: a joint made between two pieces of wood usually at an angle of 45°, to form a corner, which is 90°.

Manufacturing Techniques

One off—when bespoke products are made. Every item will be different to meet the exact customers requirements.

Batch Production—Where a specific number of a product is made. Batches can be repeated.

Mass Production—A method to make thousands of identical products,

Continuous—This method runs all the time without interruption, 24 hours a day.

Machinery and Tools in the workshop



Tenon Saw: used for sawing straight lines in wood.



Chisel: used to shape wood. Can cut out sections



File: Abrade a thin surface area of wood.



Hand Drill: used to drill holes into materials



Rasp: Abrade a thick surface area of wood.



Coping Saw: used to saw curved lines into wood.



Disc Sander: a machine which abrades materials.

Material Knowledge

Smart Materials

- Thermochromic
- Photochromic
- Polymorph
- Shape memory Alloys

Health and Safety: Machinery

PPE—Personal Protective Equipment



Pillar Drill

Always wear personal safety equipment. Ensure all materials are clamped in place securely - use the hand vice whenever possible. Ensure that the guard is in place. Always know where the STOP button is to turn off the machine.

