Knowledge organiser: jewellery box (Skills Focus)

Where timber comes from

- Timber comes from trees.
- The trees are cut down, processed and turned into stock forms of timber ready for sale.
- A stock form is a recognised shape or size of a piece of material such as dowel, sheets or mouldings.
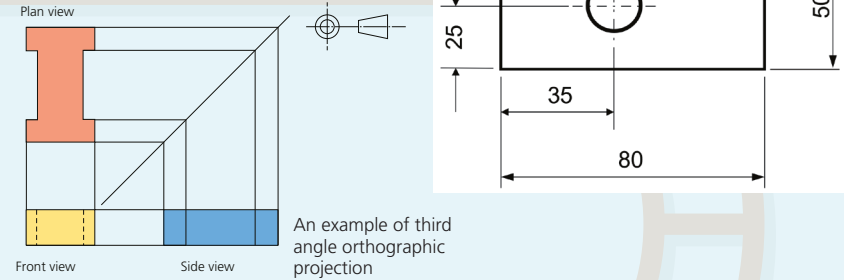
Types of drawings

- There are many different types of drawing some done by hand some by computer (CAD).
- These can include drawings such as:
  - Isometric projection
  - Exploded views
  - Orthographic projection
  - Freehand sketching
  - Perspective drawing
  - Cutaway drawings

Technical drawings

- Technical drawings give information such as sizes.
- An orthographic projection is a type of technical drawing.
- There are two types of orthographic projection: 1st angle and 3rd angle.

Plan view

Front view   Side view

An example of third angle orthographic projection

Making

There are two key methods of making a product:

Wasting – This involves cutting material away to form the product.
Tools used for this include:
- Saws
- Files
- Sanding
- Lathes

Additive – This involves adding material together to form a product.
Tools used for this include:
- 3D printers

Marking out

Tools used for marking out material can include:
- Pencils
- Rules
- Engineers' squares
- Scribes
- Tape measures

Safety in the workshop

- Wear an apron and remove any loose clothing or jewellery.
- Tie back long hair.
- Follow all verbal and written safety instructions, safety signs and floor markings.
- Always walk – never run.
- Do not 'crowd' other people – give them the space to work safely.
- Report any safety concerns or accidents immediately to the teacher.
- Do not leave anything on the floor that somebody could trip over.
- Leave the workspace clean and tidy when you have finished.
- If unsure, ask before starting any work!

Wood joints

- There are many ways of joining wood, including panel pins, screws or PVA glue.
- Usually the more surface contact between the two pieces of wood, the stronger the joint.
- There are many different types of wood joints such as:

Comb (finger) joint   Butt joint   Dowelled butt joint   Half-lap joint   Housing joints / Stopped housing   Dovetail joints