

My Tool Box



Tenon Saw – Used to cut straight lines in wood.



Hand Vice – Allows secure clamping of material for drilling.



Pillar/Bench Drill – Used to drill holes into different materials.



Coping Saw – Used to cut curves and internal shapes in wood.



Laser-cutter- Used to laser-cut and engrave material.



Machine vice – Used to hold workpiece securely during drilling.



Try Square – Used to mark out right angles.



Line Bender - Used to bend thermoplastics like acrylic.



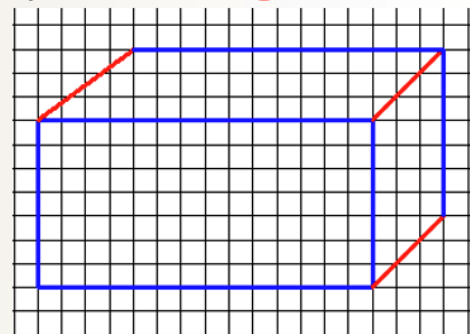
Belt Sander – Used to sand/smooth down different materials

Focused Topics



Oblique drawing

In oblique projection the drawing is made up of a series of parallel horizontal and vertical lines and parallel 45 degree lines.



Polymers

THERMOPLASTICS	THERMOSETS
(Can be melted repeatedly)	(Once shaped, cannot be melted)

Key Terms

**Aesthetics** - how humans perceive and judge objects according to their attractiveness

**Computer aided design (CAD)**-The process of creating a 2D or 3D design using computer software.

**Computer aided manufacture (CAM)**-The manufacture of a part or product from a computer aided design (CAD) using computer-controlled machinery, such as a 3D printer or laser cutter.

**Drilling**- the action of making a hole in something by boring with a drill.

**Laser cutting**- a technology that uses a laser to cut materials

**Line-bending**- a process used to bend thermoplastics in a straight line.

Tasks

- Task 1: Cover the knowledge organiser then write down all the tools you have learnt. Check and red pen mistakes.
- Task 2: Do the same as task 1 for Key words & definition.
- Task 3: Name & describe 6 types of PPE (Personal Protective Equipment) - explain their use in a workshop.
- Task 4: Draw two tools and write what they are for.
- Task 5: Create a quiz based on task 1, 2 or 3. Get someone to test you.
- Task 6: Create a mind map for the information you remember and red pen anything you've forgotten.
- Task 7: Teach it. Create a task that can be used to teach some of the information from here.

To go further:

Introduction to oblique sketches:



More information about polymers:

