



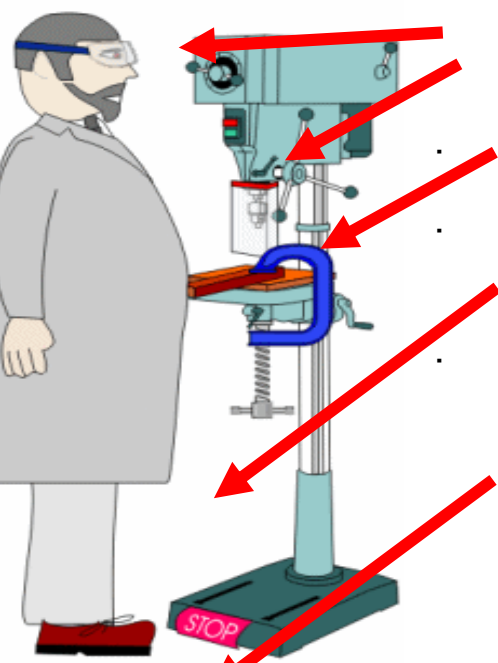
Year 7: Product Design

Technology Terminology

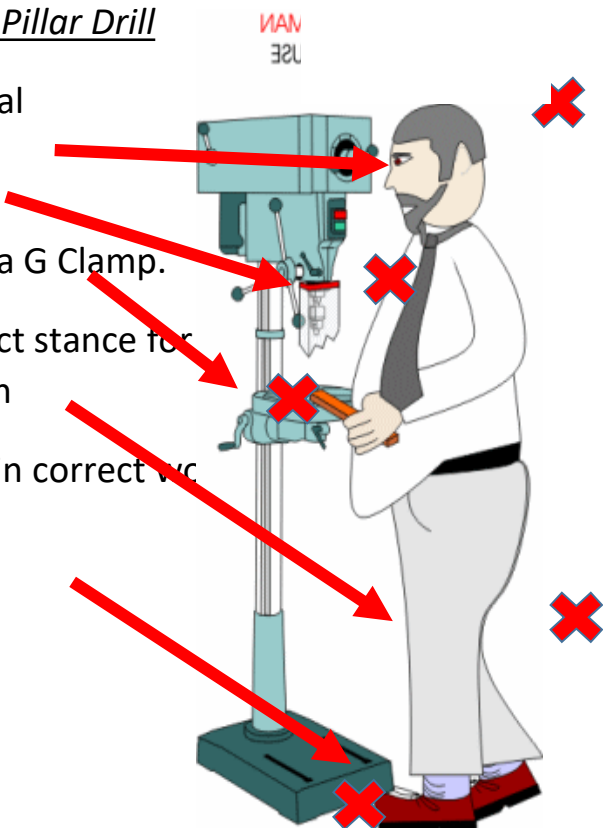
Key word (Materials)	Meaning
MDF	Medium Density Fibreboard is a manufactured wood product composed of wood fibres that are mixed with resin and wax which are then pressed into flat panels under high temperature and pressure.
PVA	Polyvinyl Acetate. Is a colourless, odourless, nontoxic, transparent, wood glue.
Wood Filler	Wood filler is a product used to create smooth surface repairs to holes in wood.
Key Word (Hand Tools)	
Tenon saw	A small hand saw with a strong brass or steel back for precise straight cutting.
Coping saw	A saw with a very narrow blade stretched across a D-shaped frame, used for cutting curves in wood.
File	A metal rectangular, triangular, round tool, used for reducing, or smoothing wood, or other materials.
Try Square	An implement used to check and mark right angles in constructional work.

Safe use of the Pillar Drill

SENSIBLE ED THE HANDY IS READY TO OPERATE THE



- Wear PPE (personal)
- Guard Down
- Secure work with a G Clamp.
- Stand in the correct stance for machine operation
- Check machine is in correct order first.



Health and Safety Rules in the workshop.

1. Do not run.
2. Do not use any equipment without instruction.
3. Wear eye protection on machinery.
4. Tie all long hair back.
5. Wear an apron.
6. Only one person on a machine at a time.



Tenon saw - cuts straight lines in wood

Coping Saw	Cut out <u>small</u> shapes in wood	Pillar Drill	Drill a <u>hole</u>	Try Square	Check the accuracy <u>Of your joint is a right angle.</u>
Sharp Pencil	<u>Draw thin lines</u> So you know where to cut.	Fret Saw	Cuts out detailed shapes on <u>larger pieces of material</u>	Metal Ruler	Helps you draw a line a <u>specific size</u>

Sustainability: providing for the best for people and the environment both now and in the indefinite future

How can we make sure we are thinking about the environment?

- Carefully plan tasks to minimise usage and wastage of materials
- Use recycled materials where possible
- Respect and look after equipment

Iterative Design

- A Proposal is made
- It is then planned and developed to meet the brief
 - It is analysed and refined
 - It is then tested and modelled

- Then evaluated against the brief – many versions fail but that then informs development to make the idea better
- The cycle then repeats and if the product is successful it is then made and sold on the market

Tessellatio

An arrangement of shapes closely fitted together, without gaps or overlaps

