SANGAM SKM COLLEGE - NADI LESSON NOTES – WEEK 1 YEAR 9 BASIC TECHNOLOGY

Strand	Hand Tools and Appliance
Sub-Strand	Hand Tools
Learning Outcome	Identify the basic woodwork and metalwork hand tools, their parts
	and uses.

CLASSIFICATION OF TOOLS

- 1. Holding and supporting tools These tools are used to hold or support the job while working on it.
- 2. Geometrical tools These tools are used for measuring, marking, testing and setting out the work.
- 3. Abrading and Cutting tools These tools are used for reducing the timber to required sizes and shapes.

4. **Percussion and impelling tools -** These tools are used to drive nails, screws, chisels and take out nails and screws.

5. Boring tools - These tools are used to bore holes.

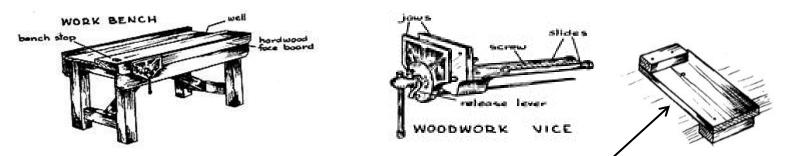
1. HOLDING AND SUPPORTING TOOLS

Woodworking Bench- work bench is used for supporting your practical work piece or project while you work on it and during various other operations.

Bench Well- used for storing the tools which are in use.

Bench Stop- used to block and prevent the timber from sliding away while planning on the bench.

Bench Vice- used to hold your job piece while you work on it; cutting, chiseling, sanding, assembling, etc.



Bench Hook- used for holding the timber while you saw or chisel on the bench and at the same time preventing the bench top from damage.

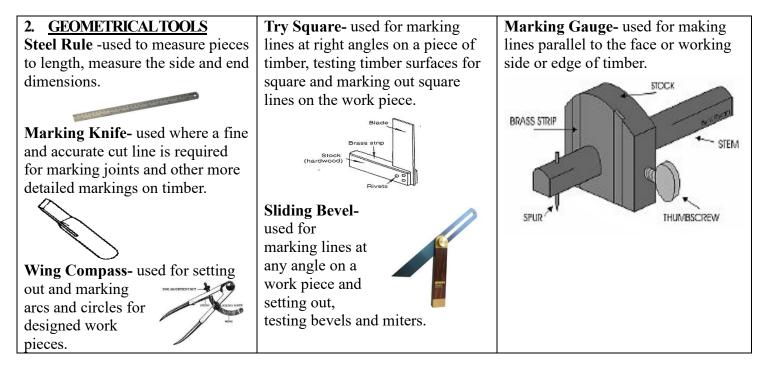
EXERCISE

- 1. What is the use of a bench hook and a G cramp
- 2. What are the 5 classification of hand tools?
- 3. Research work List three types of Geometrical Tools.

Note: if you cannot print and paste the notes you can write in your note book. Answer all exercises in your note book.

SANGAM SKM COLLEGE - NADI LESSON NOTES – WEEK 2 AND 3 <u>YEAR 9</u> <u>BASIC TECHNOLOGY</u>

Strand	Hand Tools and Appliance
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Learning Outcome	Identify the basic woodwork and metalwork hand tools, their parts
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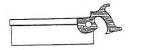
3. <u>ABRADING AND CUTTING TOOLS</u>

- Saws are the most heavily used of all woodworking tools.
- To hold the saw properly and the best method is described as 3-1-1 which represents the placing of the fingers on the handle.
- The cut made by the saw is called a kerf.
- Back Saws
- These are small saws with stiff thin blades used for making accurate cuts in small pieces of timber.
- Tenon saw- used for general bench work such as cutting of
- Joints, angles, with and across the grain.

Exercise 1 :

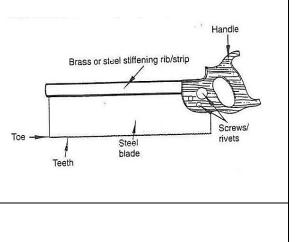
- i. What is the use of a tenon saw.
- ii. State the purpose of the stiffening rib.

Dovetail saw- used for fine accurate work and for cutting dovetails.



Curve cutting saws

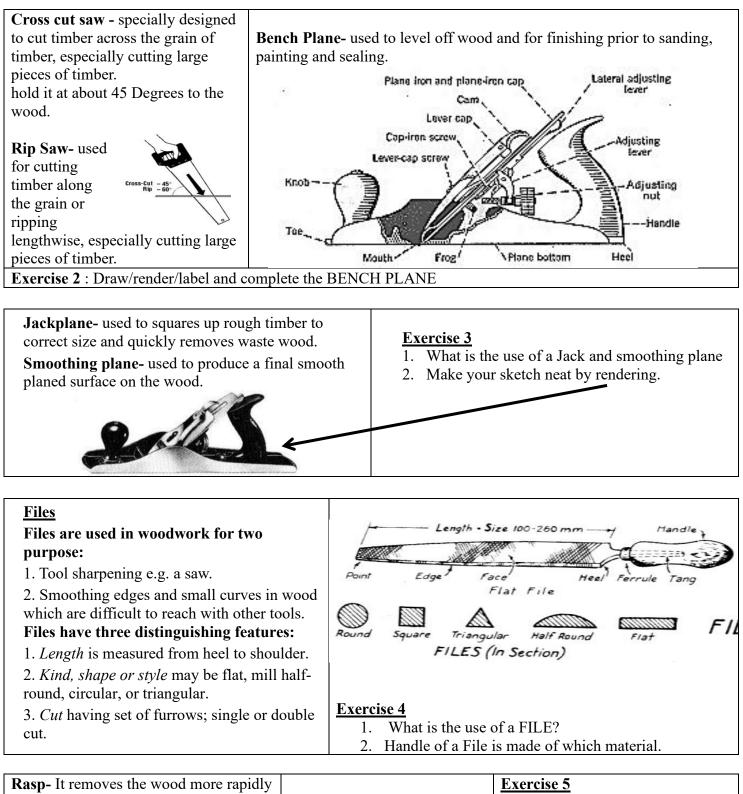
Coping Saw- used to cut small curves, slots and difficult shapes in fairly thin timber, plastic, glass fibre and mild steel.



frame

hlade

handle



Rasp- It removes the wood more rapidly than a file but leaves a coarse finish, which must be smoothed with a file or glass paper.

 What material is a FILE made of?
What is the use of a Rasp

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