

PENANG SANGAM HIGH SCHOOL

P. O. BOX 44, RAKIRAKI

LESSON NOTES - 20

SCHOOL: PENANG SANGAM HIGH

SUBJECT: BASIC TECHNOLOGY

YEAR/ LEVEL: 9

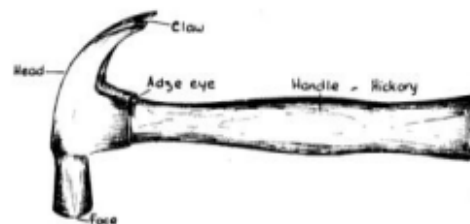
Strand	BT9.4: HAND TOOLS AND MATERIALS
Sub - Strand	HAND TOOLS AND APPLIANCES.
Content Learning Outcome	BT9.4.1.1 Identify the common woodworking and metalworking hand tools, their parts and uses and develop skills in use of the hand tools.

Hammers

Hammers come in variety of head weights and handle lengths. The head of a hammer is made of forged steel and the handle is made of either wood or steel. Always choose the hammer that fits your hand and is designed for the work to be carried out.

Claw hammer

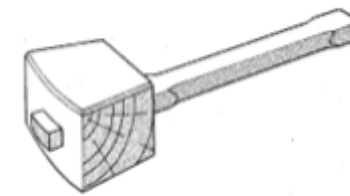
Is the commonly used hammer in woodworking and is mostly used for heavy work. It is mainly used for heavy work in driving large nails. As the name suggests, it has a claw used for extracting nails.

**Warrington hammer**

Is a light hammer with a cross pein. It is used for light hammering and general use in cabinet work.

**Mallet**

It is similar to a hammer made of wood with a large rectangular head fitted with a tapered handle. It is used for driving chisels and for knocking pieces in assembling jobs.

**Pincers**

Is a tool made from drop forged steel. It is used for extracting nails.

**Nail punch**

A small tool made of steel. It is used with the hammer for driving nails below the surface of timber.



Screwdriver

Has a blade made of alloy steel which may be flat, round or square. One end of the blade is ground to form a tip(s) to fit the slots of screws, and the other end shaped to a tang which is fitted into a handle made of tough hardwood or plastic. These are available in a variety of sizes and patterns.

The screwdriver is a driving or impelling tool used for inserting or removing screws for general work

**BORING TOOLS**

These are tools that are used for boring or cutting holes in timber.

Ratchet brace

It is fitted with a ratchet so that holes can be bored in confined spaces, where it is impossible to turn or sweep the crank for complete turn.

The brace is used with screwdriver bit for driving screws.

**Hand drill**

It is useful for woodwork because the drills cut quickly and do not split the wood.

It is used mainly for boring holes for screws or nails.

**Hand Drill Bits**

Many varieties of bit are designed for boring holes. Bits have a round shank to fit into the chuck of the hand drill. The term boring means cutting holes in materials.

**SHORT ANSWER QUESTIONS**

1. Name the tool which is used for inserting or removing screws for general work.

2. Name the tool which is used for extracting nails.

3. Define the tool **Mallet** and explain its use in woodwork.

4. Define the term **boring tools**.
