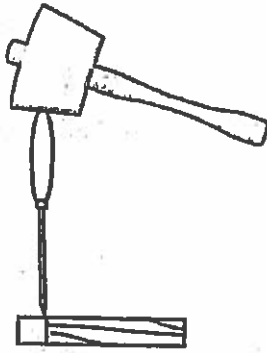
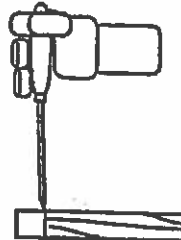


## SHAPING WOOD - CHISELLING

Chisels are used for chopping away waste wood when cutting a joint and for paring small amounts of wood away when fitting the two halves of the joint together accurately.



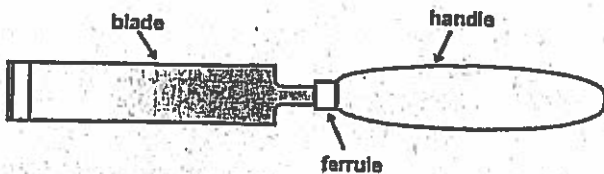
Chopping, using a mallet



Paring by hand

### Firmer chisel

The firmer chisel, like most chisels, has a blade made from tool steel and a handle made from Ash or polycarbonate and is designed for chopping away waste wood. The ferrule is a brass ring that stops a wooden handle from splitting.



### Bevel-edged chisel

The blade is thinner at the edges than a firmer chisel and is used for paring and for cleaning out corners.



**Safety Note:** when paring always keep both hands behind the blade of the chisel to avoid cutting yourself.

An end-on view of a firmer chisel in use

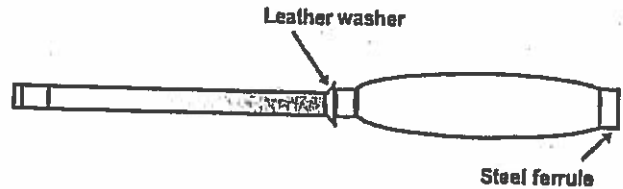


An end-on view of a bevel-edged chisel in use



### Mortise chisel

The mortise chisel is used for cutting the hole (the mortise) for a mortise and tenon joint. It is designed to withstand being hit hard with a mallet. The leather washer helps to absorb some of the shock and the steel ferrule stops the handle from splitting at the end.



### Gouge

The gouge has a curved blade and is used to cut shallow depressions in wood.



An end-on view of a gouge in use



**KEY WORDS:** Firmer, Mortise, Bevel, Gouge, Paring

1. Make a labelled sketch of a firmer chisel.
  2. From what materials are chisel handles made?
  3. What is the purpose of a ferrule on the handle of a chisel?
  4. What is the advantage of the bevelled edges on a chisel?
  5. State a safety rule that you should observe when using a chisel.
  6. From what material are chisel blades made?
  7. What is a mortise chisel used for?
  8. What is the purpose of the leather washer found on a mortise chisel?
  9. What is the difference between a gouge and a firmer chisel?
  10. What is a gouge used for?
- A Create an A4 size poster in your own style showing the uses for the firmer, bevel-edged and mortise chisels plus the gouge.