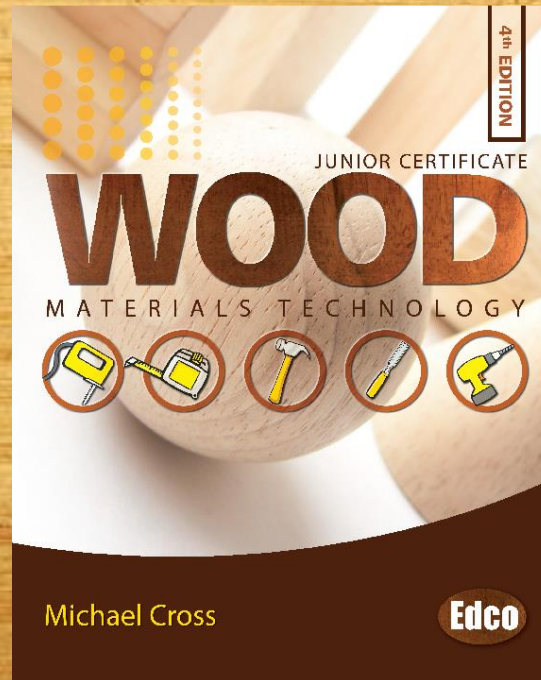


WOOD MATERIALS TECHNOLOGY

4th Edition



Chapter 17

Metals



Groups of metals

Ferrous

- Metals containing iron
- Iron
- Steel

Non-ferrous

- Pure metals contain no iron
- Aluminium
- Copper
- Zinc
- Lead

Alloys

- A mixture of 2 or more metals
- Brass
- Bronze

Alloys – a mixture of metals

- Name the metals in these alloys

Brass

copper & zinc



Bronze

copper & tin



Stainless steel

steel, chromium & nickel



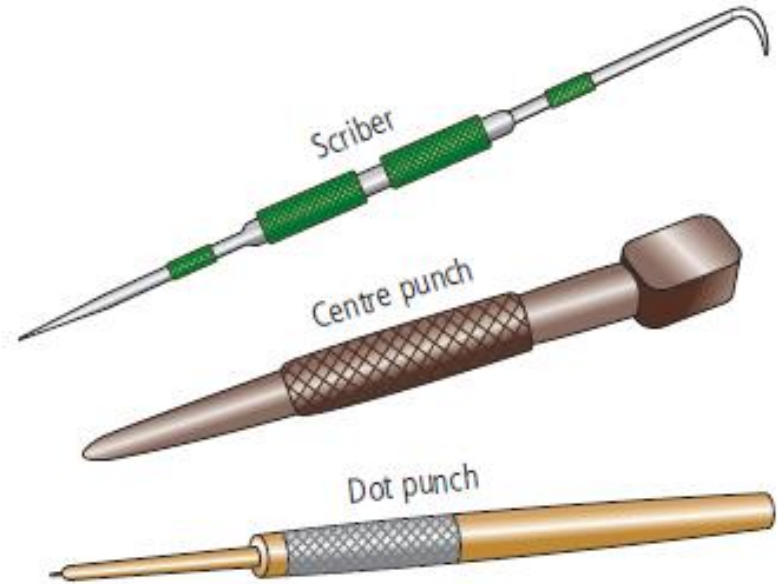
Working with metals – tools



Hacksaw



Junior
hacksaw



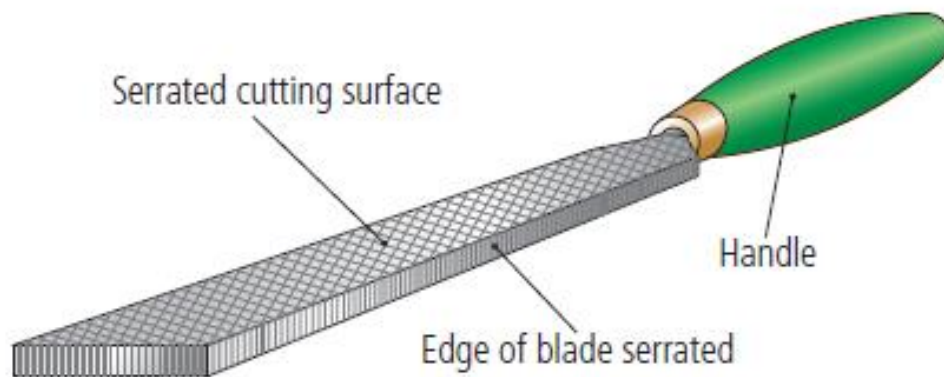
Scriber

Centre punch

Dot punch

Files

- What is a file used for?



- Files are used to shape and smooth the edges of metal and of plastic

- Put an 'X' in the correct box showing whether each metal below is a pure metal or an alloy

	Metal	Pure Metal	Alloy
1	Aluminium	X	
2	Brass		X
3	Bronze		X
4	Copper	X	
5	Steel	X	
6	Tin	X	

- Identify, using an X, whether the following metals below are ferrous or non ferrous

	Metal	Ferrous	Non-ferrous
1	Aluminium		X
2	Cast iron	X	
3	Bronze		X
4	Copper		X
5	Steel	X	
6	Zinc		X