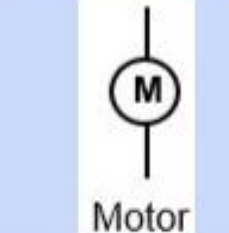
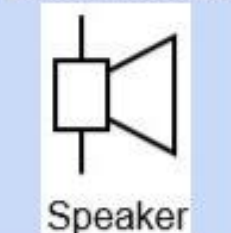
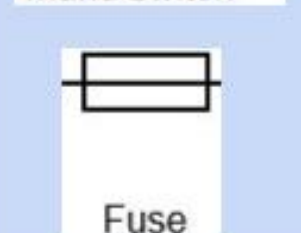
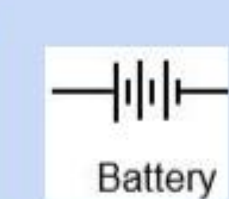
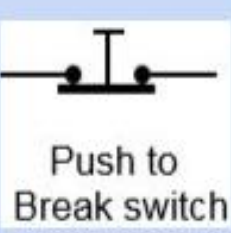
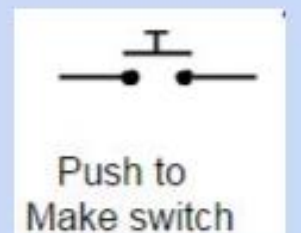
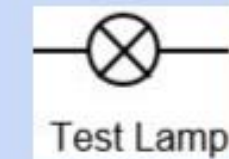
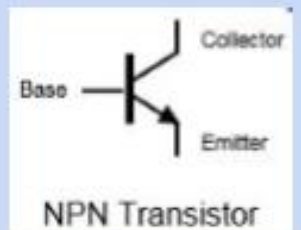
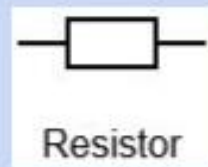
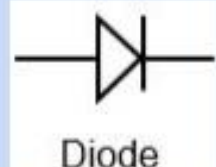
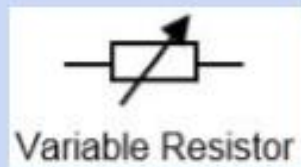


# Year 7 Knowledge organiser Steady Hand Tester

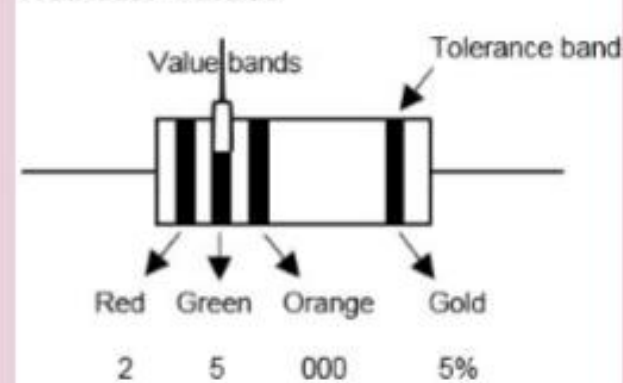
## Electronics

### Components

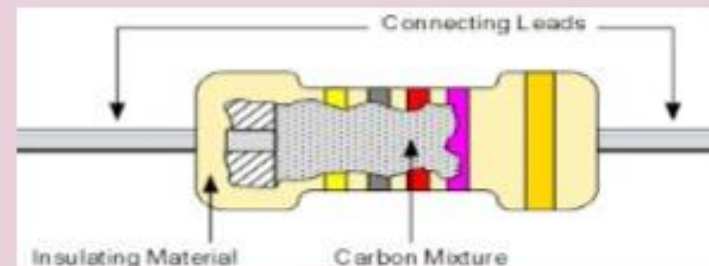


Resistors – **restrict** the flow of electricity

### Resistor Values

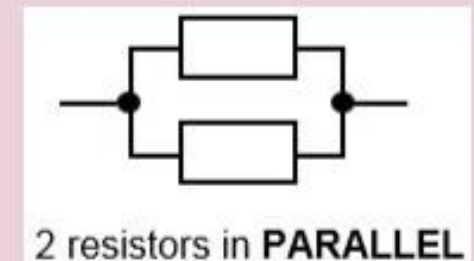
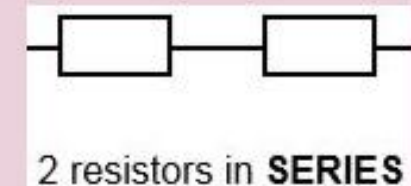


When the resistor is placed this way around the first band is a number, the second band is a number and the **THIRD** band is the number of zeros.



### Value bands

Black	= 0
Brown	= 1
Red	= 2
Orange	= 3
Yellow	= 4
Green	= 5
Blue	= 6
Violet	= 7
Grey	= 8
White	= 9



# Electronics



Soldering Iron



Wire strippers



Soldering Iron



Side Cutters



Long nose pliers



Solder

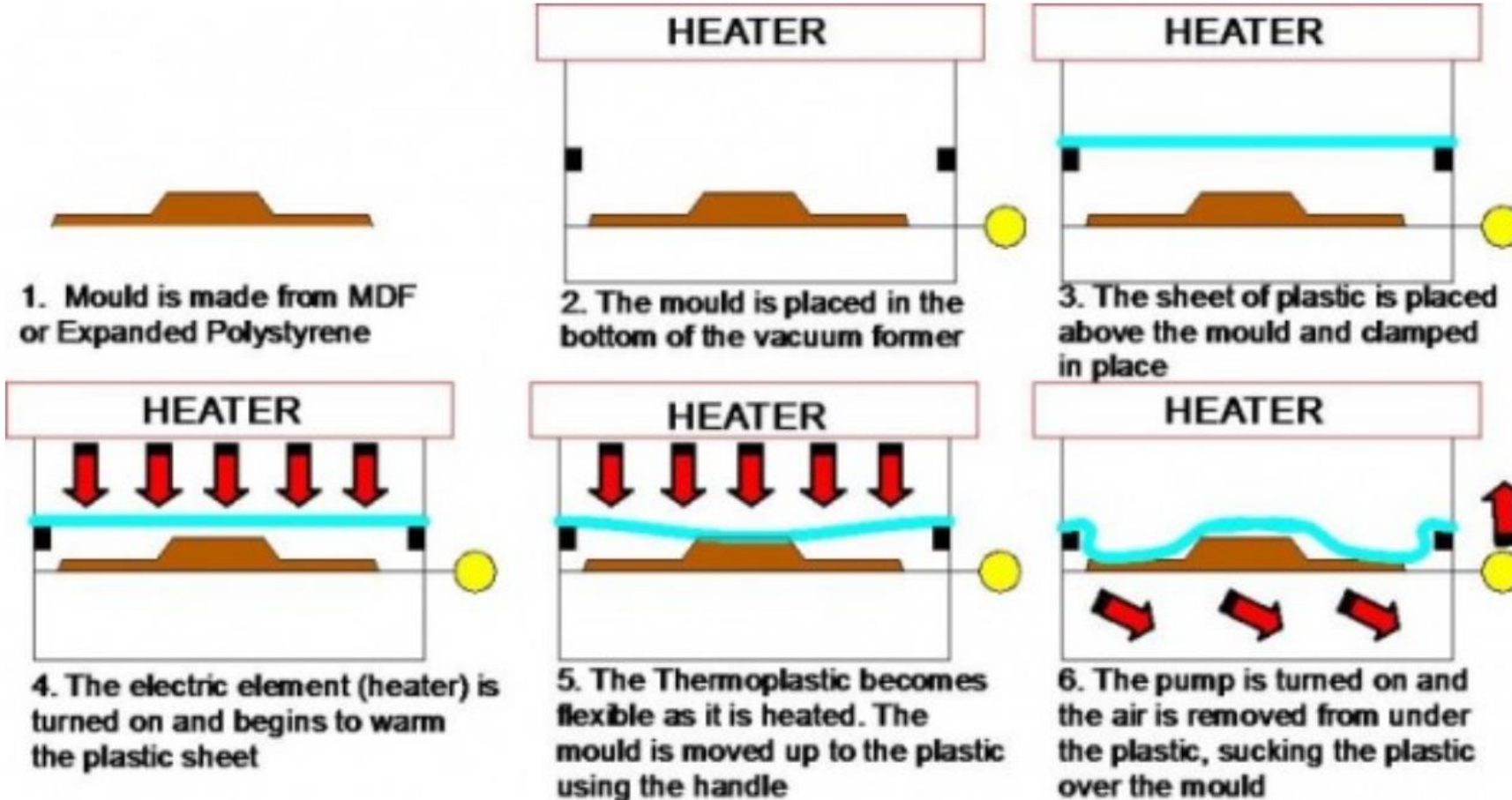
## Soldering Safety:

Soldering is not dangerous provided you follow these simple rules:



1. Soldering irons get VERY hot and can cause severe burns. Make sure you handle it with care and always put the iron back in the stand when you are not using it.
2. If you burn your hand run it under the cold tap for ten minutes & see a first-aider.
3. Make sure you work in a well ventilated area and use any fume extraction that may be available.
4. Wear goggles. These will protect your eyes from any small pieces of wire that may fly off as you snip them with the wire cutters.
5. Most soldering irons run directly from the mains. Take great care that you do not burn the flex as you could electrocute yourself or someone who uses the iron after you.
6. Never flick solder off the tip of the iron, to clean it rub it on the moistened sponge
7. Be careful of loose cables – do not have them in your walk way or where they can be pulled.

# Vacuum Forming Step by Step:



## Isometric Drawing

