

Name..... Group..... Mark.....

### 9.10 Burglar Alarm project - Soldering

Fill in the gaps using the words below...

circuit, 150, 200, 300, wire, flux, iron, melts, damaged, mains cables, fresh air, permanent, hot, sink, alloy, clean

Soldering is a \_\_\_\_\_ method of connecting components in an electrical \_\_\_\_\_.

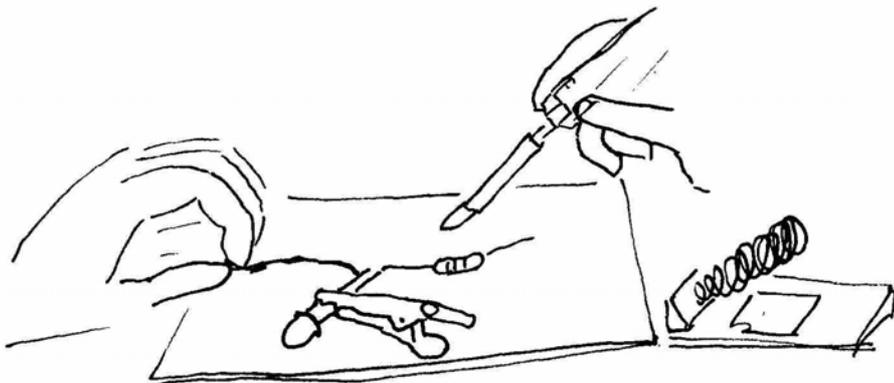
Solder is an \_\_\_\_\_ of tin (60%) and lead (40%) that melts around \_\_\_\_\_°C.

The solder is used in the form of a \_\_\_\_\_.

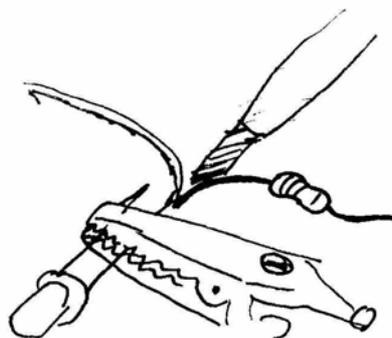
#### Soldering is easy if you follow these rules...

1. Make sure that work is \_\_\_\_\_, no dirt or grease. Use \_\_\_\_\_ to be sure.

2. Use the soldering \_\_\_\_\_ to make the joint \_\_\_\_\_ so that the solder \_\_\_\_\_ and flows between the wires.



3. Ensure that the components are not \_\_\_\_\_ by heat. Here the crocodile clip acts as a heat \_\_\_\_\_ to protect the LED.



4. **SAFETY**  
Keep the hot soldering iron away from all \_\_\_\_\_

Make sure that there is plenty of \_\_\_\_\_ where you are working.