

# **3055 BA SANGAM COLLEGE**

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## WORKSHEET NO: 27

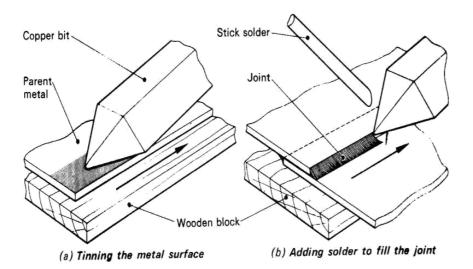
Subject: Basic Technology	Year/Level:		<b>d:</b> 10
Topic: Soldering	Revision		

#### **LESSON NOTES:**

#### Soldering

Soldering is a method of joining metal by using an alloy having a lower melting point than the metal being joined. Good for joining dissimilar materials. Most common solders are lead-tin alloys. The solder is an alloy of lead and tin that melts at a relatively low temperature, from 350 to 450 degrees, and the source of heat may be an electric soldering gun, an electric soldering iron or a portable propane torch.





Soldering irons have copper bits because copper has an attraction for

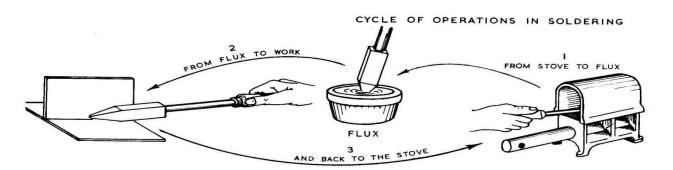
solder, has a high thermal capacity, it malleable, soft metal and is a good conductor of heat. It is a tool used to transfer heat and melted solder into suitably designed metallic connections and sheet metal joints.

The process of soldering involves:

- (i) Tinning the metal surface.
- (ii) Filling the space between the tinned surfaces with solder.

A fluxing agent is used to assist the flow of solder and increase bonding strength. Fluxes are of two general types, zinc chloride and resin. The functions of a flux are:

- (i) They keep the metal clean during heating.
- (ii) They break down the surface tension of the solder enabling it to flow.



### **REVIEW QUESTIONS**

 1. Name the two processes of soldering.
 (2 marks)

 2. Shotch a soldering increased area its parts and write down its wass.
 (6 marks)

2. Sketch a soldering iron and name its parts and write down its uses. (6 marks)

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