

## **REVISION CARDS - SOLDERING**

V.Ryan © 2013 World Association of Technology Teachers WHAT IS SOLDER?

Electronic components are

metallurgically joined to the copper

tracks of a PCB, using solder. Solder is

an alloy of tin and lead (63% tin and

Lead is toxic. Consequently, lead free

solder is popular. The lead has been

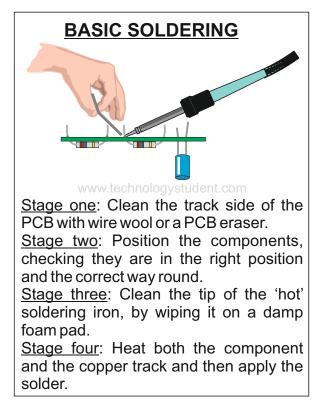
removed and replaced with other

metals. However, these solders work

at higher temperatures.

LEAD FREE SYMBOL

37% lead).



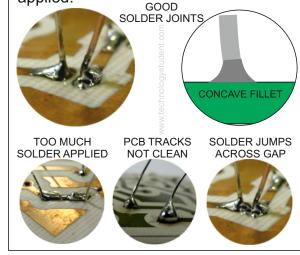
1. Describe soldering components to a PCB, in four simple stages.

4 marks

ROLL OF SOLDER

**GOOD AND BAD JOINTS** 

Good soldering produces a 'concave' solder joint. The soldering iron must be at the right temperature, applied to the track and 'wire' for the right amount of time, with a 'small' amount of solder applied.



2. What is solder? Why is lead free solder popular?

3 marks