



Overview	Students will be learning how to solder using the normal and sweat soldering methods.
Objective	Given the tools and materials, the class will be able to solder two pieces of metal together at a seam and solder a wire to a flat piece of a metal correctly.
Materials	<ul style="list-style-type: none"> ▪ Easy Solder ▪ Medium Solder ▪ Torch ▪ Two small pieces of copper 1" by 1" ▪ 2" length of copper wire ▪ A computer with a projector ▪ A projector screen
Procedure	<ul style="list-style-type: none"> ▪ Start by showing the students the differences between cold connections and soldered connections in a PrezentIt presentation. ▪ Then show another presentation in PrezentIt and show the steps, Including: cleaning the metal, applying the flux, using the right amount of solder, where the solder should be place, applying even heat with the torch, and quenching the metal. ▪ After the presentation actually walk through all of the steps and address the students' questions. ▪ Let the students try it themselves. If the students forget a step or need to see an example again, they can go back through the presentation.
Evaluation	The students will be evaluated on how strong the connection is and how neatly the solder flowed. The students have as long as they need to learn the techniques, but they cannot move on to the next project until their solder piece is finished.

