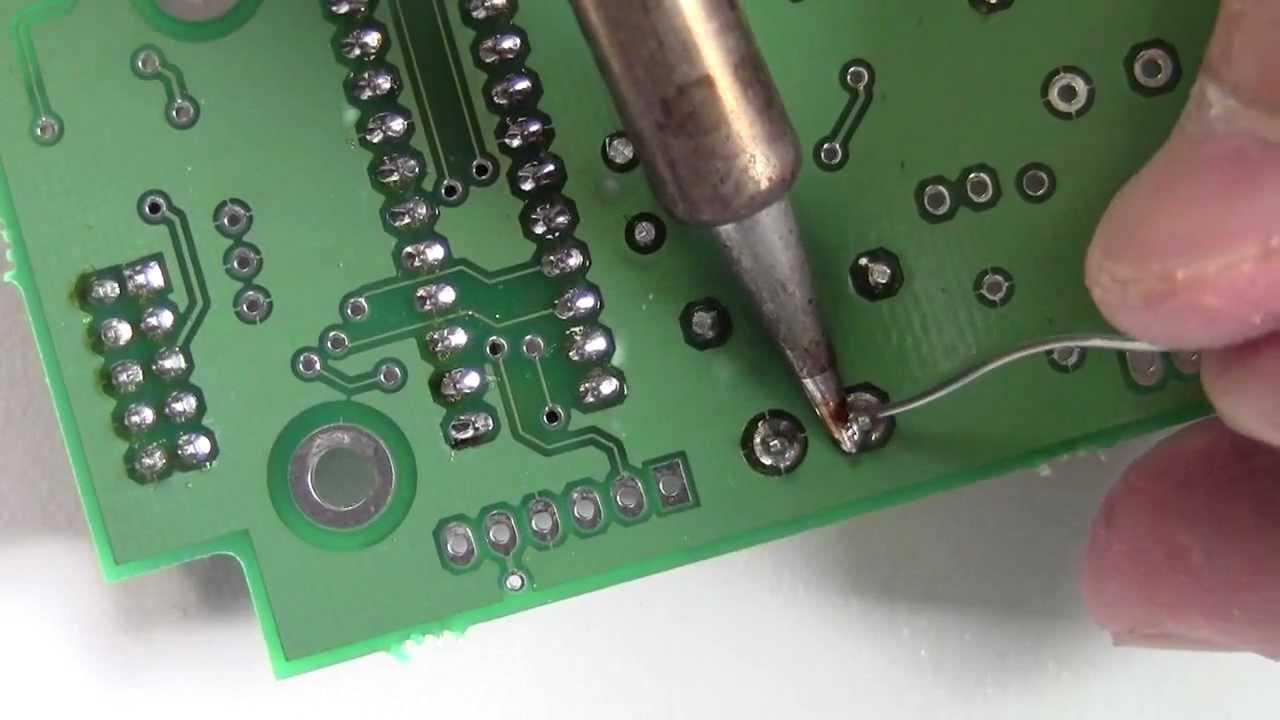
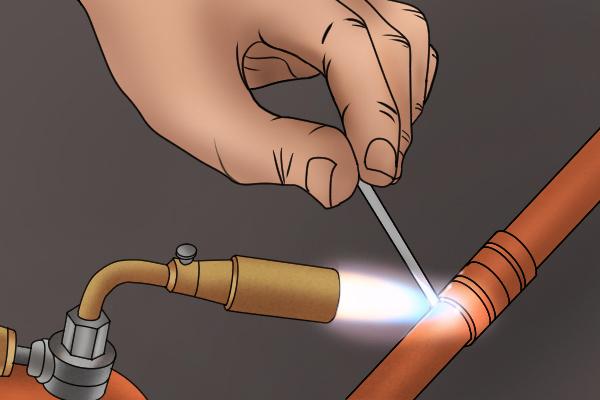
# Introduction and Definition

Soldering is an ancient art, dating back to at least ancient Egypt, where soldering was used in creating jewelry.

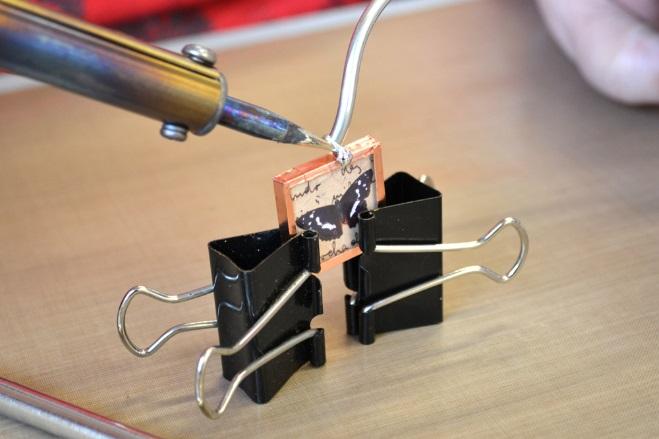
It is the use of a material (solder) to create a joint with another metal. For electronics, the process is used to create joints that allow for **conductivity** of electricity. It is done by applying a melted layer of filler material (solder). Unlike welding, which melts the base metals to combine the two components being joined, soldering melts only the solder.



Soldering is also used in a number of non-electric applications, including plumbing:



jewelry making:



creating the separation between colored glasses in stained glass:



and attaching flashing on roofs.



Each of these applications has different requirements with regard to the type of solder and flux used and the temperature needed to make the joint. Some tools and techniques overlap among the various soldering applications, but soldering in electronics has particular requirements to achieve optimum results.