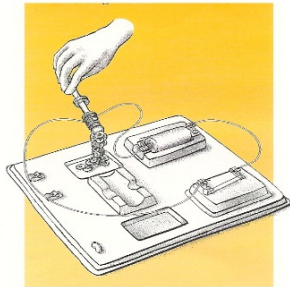
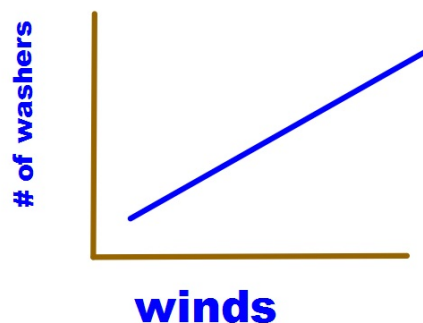


**How can you turn a steel rivet into a magnet that turns on and off?**



A magnet can be made by winding an insulated wire around an iron core and running current through the wire. The magnetism produced by an electromagnet can be turned on and off using a switch.

How does the number of winds of wire around a core affect the strength of the magnetism?



The more winds on the core of an electromagnet, the stronger the current running through the core. The stronger the current, the stronger the magnetism.