

Generating induced currents

Activity 1: How to assemble the coils

In this activity, the coils have been assembled directly onto the tube. First, a strip of cardboard is fitted around the tube. Then, two cardboard discs with a hole in their centre are slid onto the tube on either side of the cardboard strip. This structure is glued together and glued to the tube, as shown figure S3. Enamelled copper wire (diameter: 0.5 mm) is wrapped around the cardboard strip N times, ensuring that the end of the wire remains accessible. Finally, the bulb socket is attached to the cardboard discs using glue, and the ends of the coiled wire are attached to each terminal. Use sandpaper to remove the enamel off the ends of the wire to ensure electrical contact with the socket).

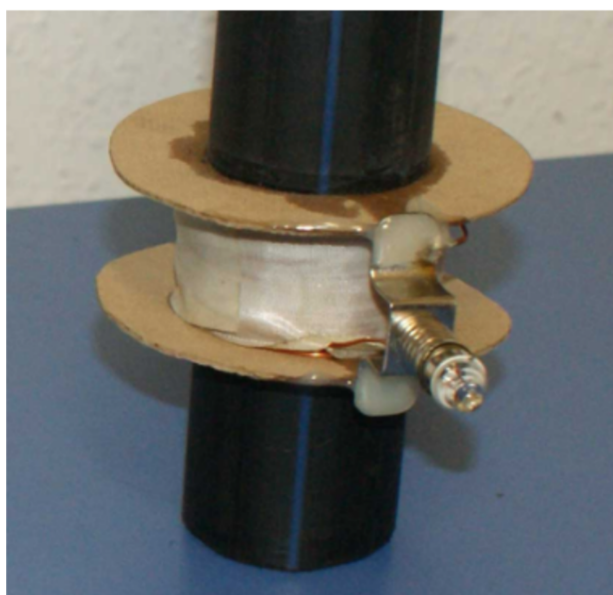


Figure S3: Close-up of the copper coils used in Activity 1
Image courtesy of the authors