

Flappin' Wing



Make a wing that can flap up and down when an electrical current is applied. The flapping wing uses electromagnetism to create movement in a similar way to the flip dot eye.

What you need:

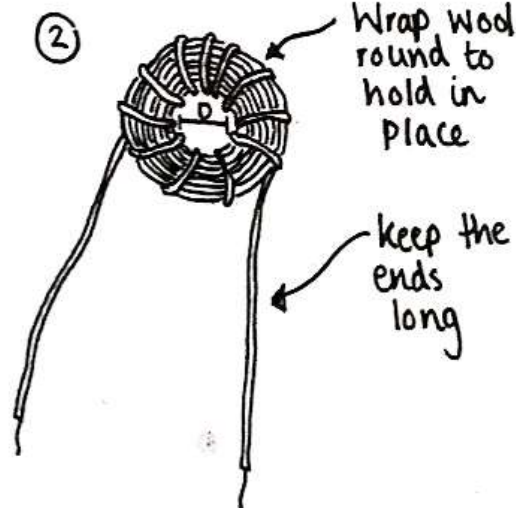
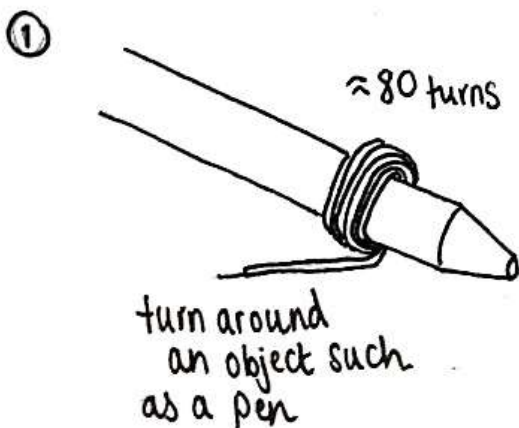
NORMAL FABRIC
NEEDLE AND THREAD
THICK THREAD OR WOOL
INSULATED WIRE
WADDING OR LIGHT FABRIC
STRONG SMALL CIRCULAR
MAGNET (1CM DIAMETER)



BUILD ILLUSTRATION

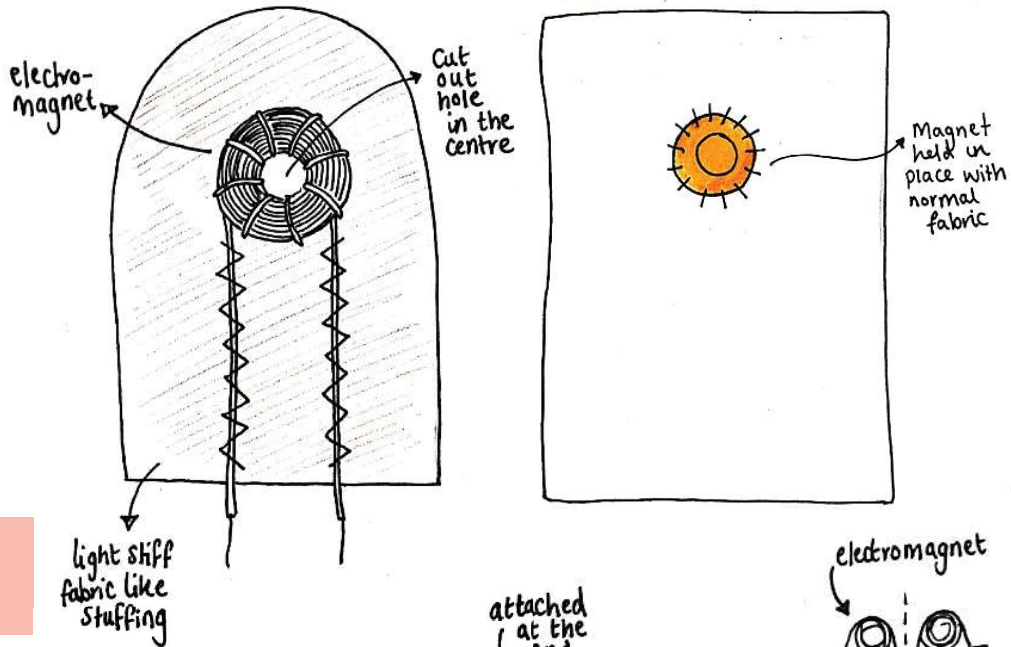
STEP 1

CREATE THE ELECTROMAGNET

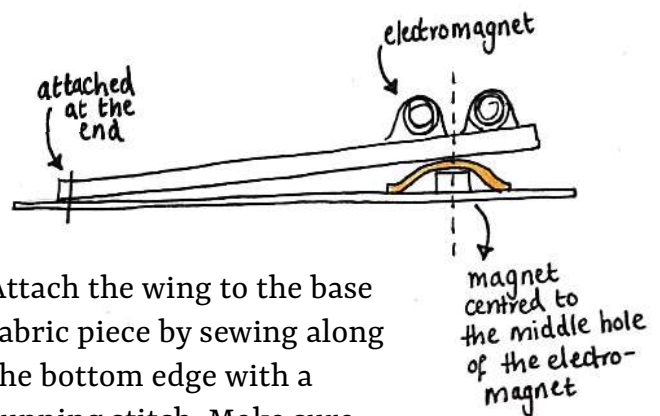
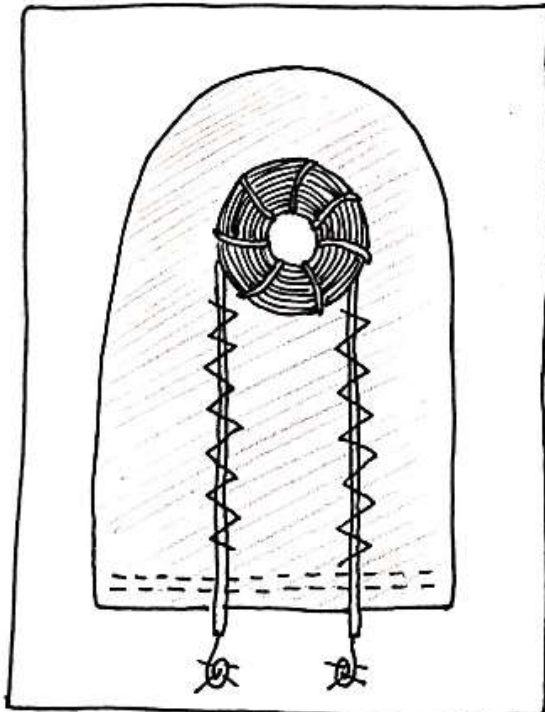


STEP 2

Attach the electromagnet into position on the wadding or light, stiff fabric that has been cut out into the shape for the wing. It's suggested to sew the the legs down using a zig zag or couching stitch. On the base fabric, sew the magnet into position by covering it with a small circle of fabric and sewing around the edges. You need the magnet to line up with where the electromagnet on the wing will sit.



STEP 3



Attach the wing to the base fabric piece by sewing along the bottom edge with a running stitch. Make sure the electromagnet is well positioned over the magnet like shown in the image above.

Strip the ends of the electromagnet, coil these up and sew into place on the base fabric.

How it Works

Connect one end to the +ve of the 9V battery and the other to -ve. Then swap to make the wing flap!

Check out the How it Works section for the Flip dot eye. The flappin' wing works on the same principles!