

How to make an electronic bird quiz

What do you need?

A4 cardboard sheet, 1.5v light bulb and holder, brass paper fasteners, thin wire, 1.5v battery, crocodile clips, glue, [downloadable question sheet](#).

What do you do?

- Print the downloadable question sheet and stick it to the cardboard sheet.
- Pass the brass paper fasteners through the spots on the cardboard sheet and fasten.
- Twist the end of a length of wire around the base of the top right fastener (viewed from behind) and the other end around the base of the fifth fastener down on the left.
- Follow the same procedure with the other fasteners in this order: 2R-8L, 3R-7L, 4R-3L, 5R-6L, 6R-4L, 7R-2L, 8R-1L (R=right, L=left).
- Attach a length of wire to each pole of the battery. Attach a crocodile clip to the end of one of the wires and attach the other to the light bulb holder.
- Attach another length of wire to the other side of the light bulb holder and a crocodile clip to the end of this.
- Test the circuit and then each question and answer individually, making sure that the right answer makes the bulb light up.
- Stick a sheet of paper over the back to hide the answers and you are ready to test your friends and family. Have fun!