Name: _____

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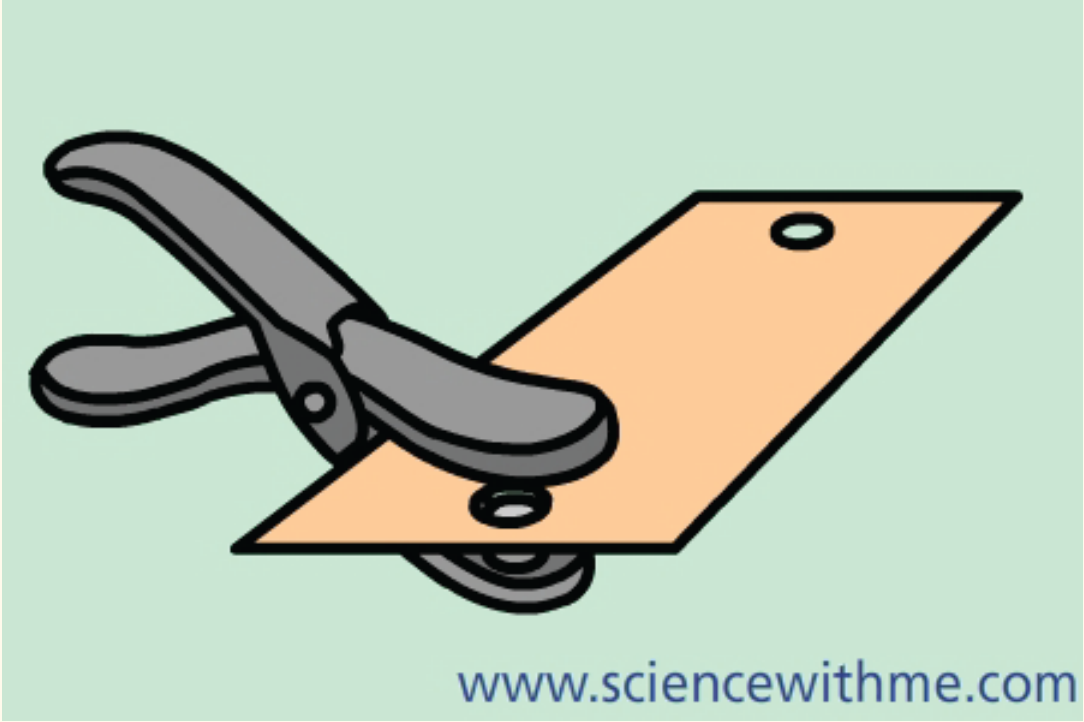
Aim

To make a switch and put it in the circuit so that you can turn the light on and off.

Apparatus:

- Strip of cardboard
- Brads
- Battery
- Paper clip
- Bulb
- Rubber band
- Alligator clips

Method:



Step 1: Punch two holes in the cardboard.

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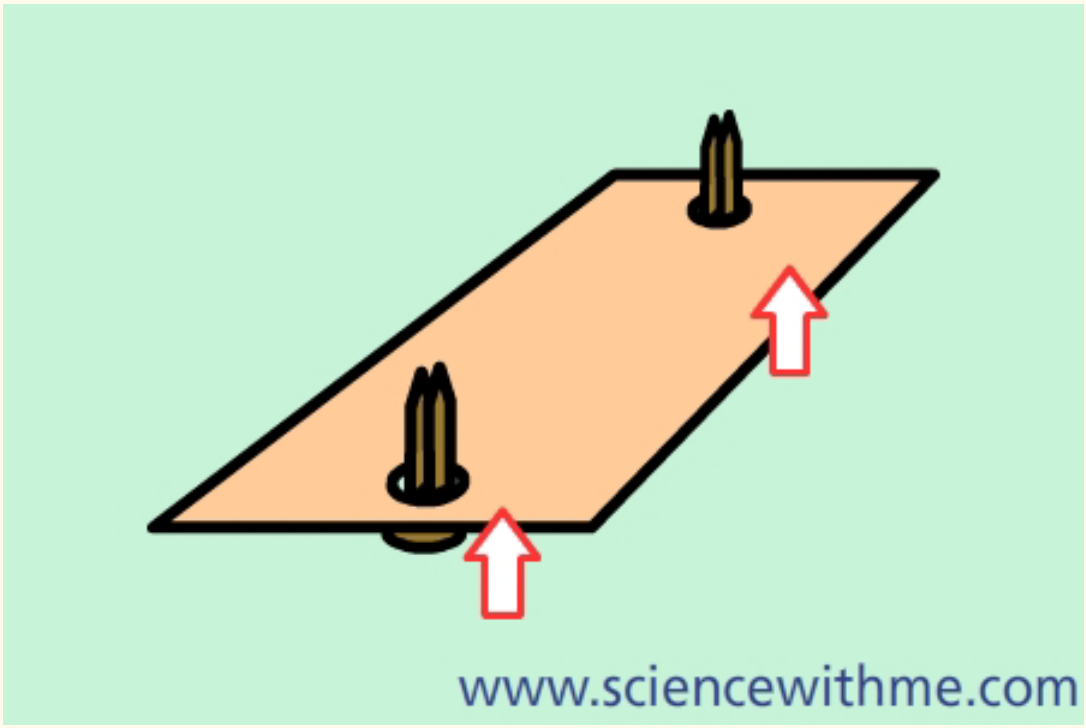
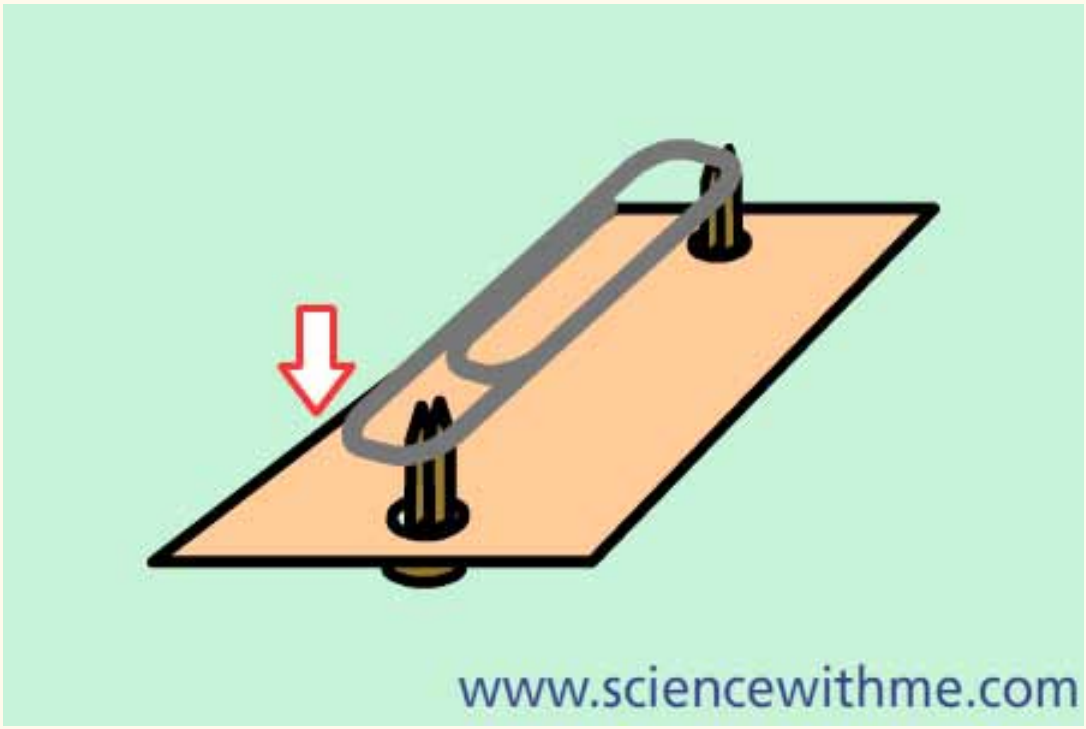
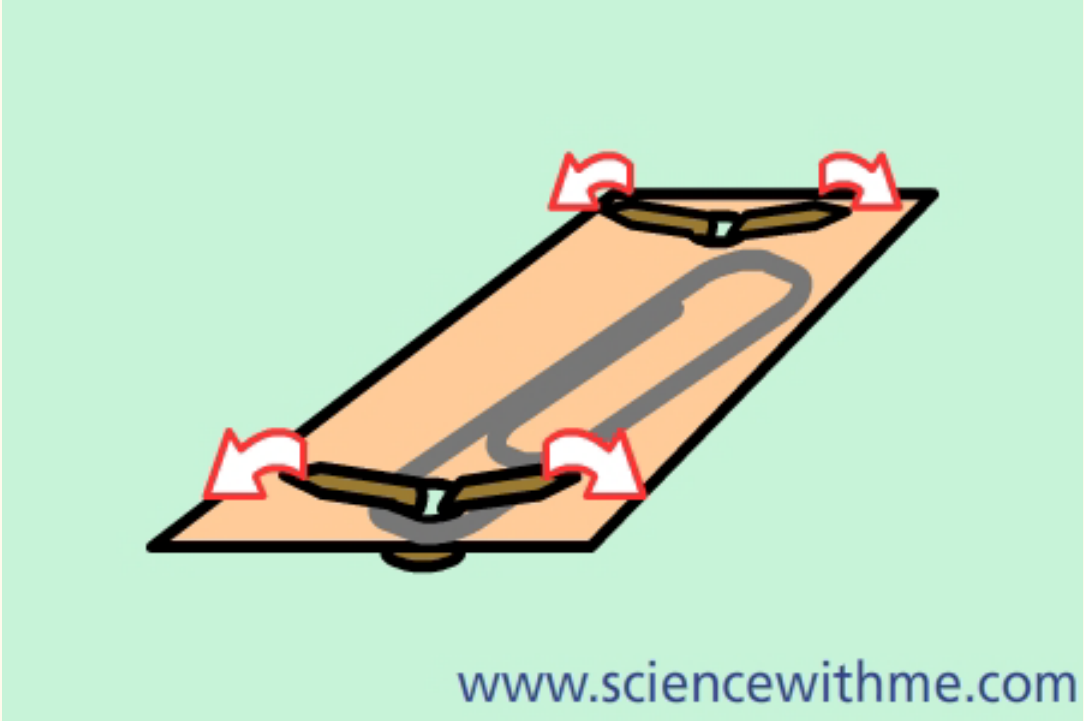


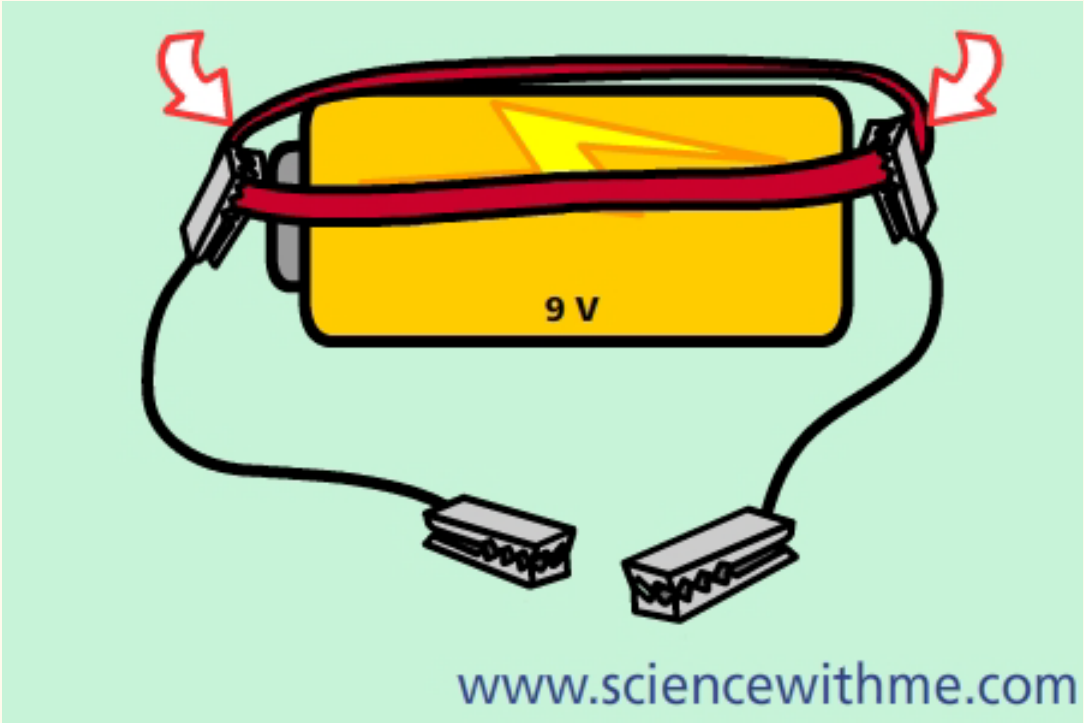
Step 2: Push two metal brads through the pre-punched holes.



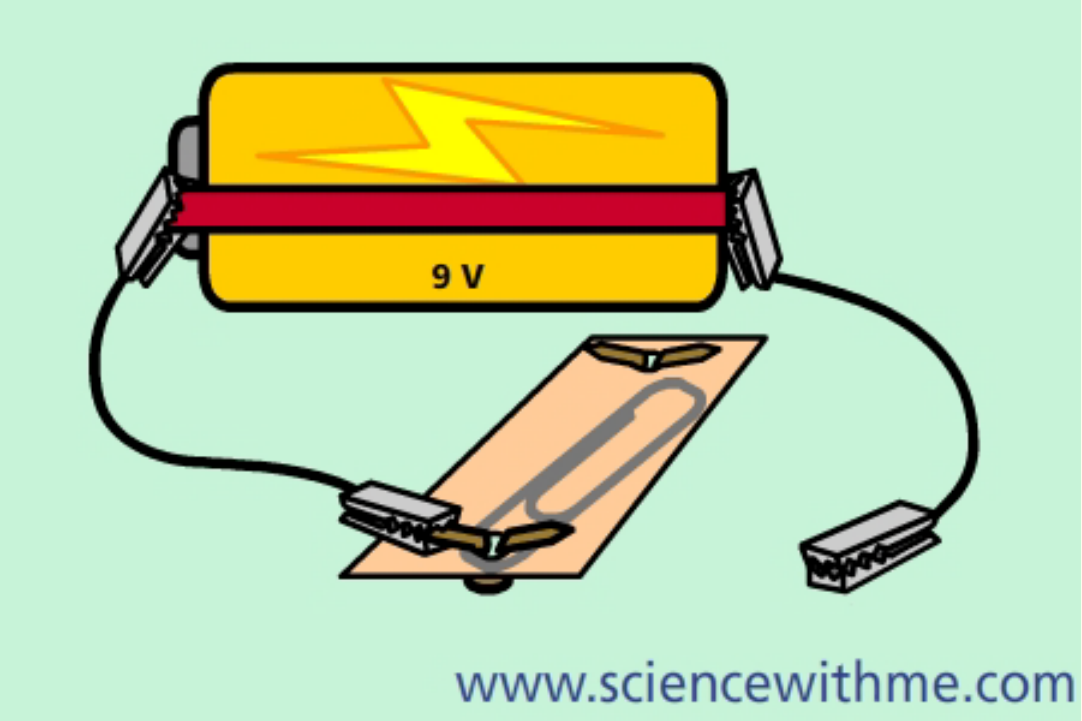
Step 3: Place the paper clip over one of the brads.



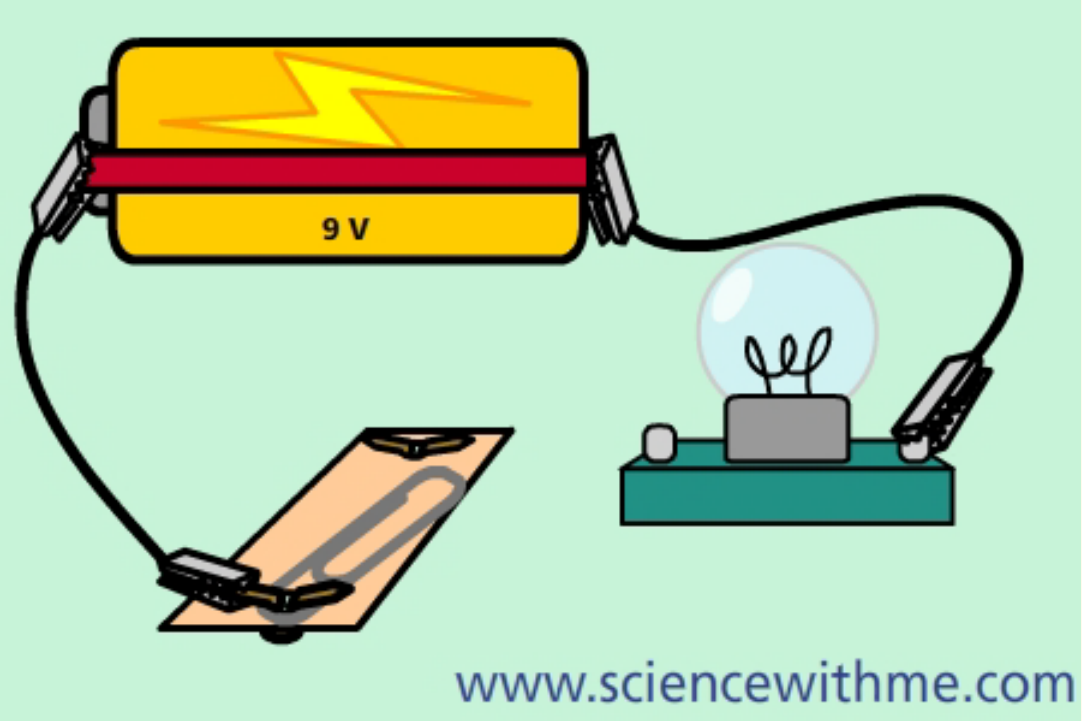
Step 4: Lock the paper clip in place by bending open the brad on the underside. Bend open the other braid too.



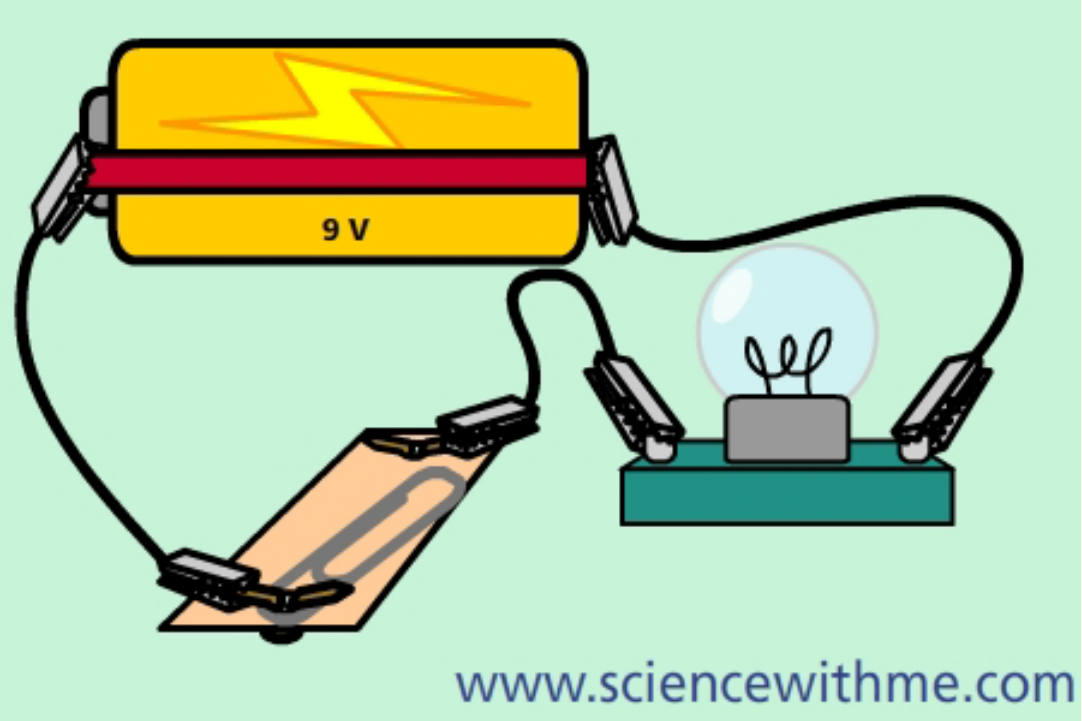
Step 5: Place a rubber band around the battery and connect the alligator clips to the each end of the battery.



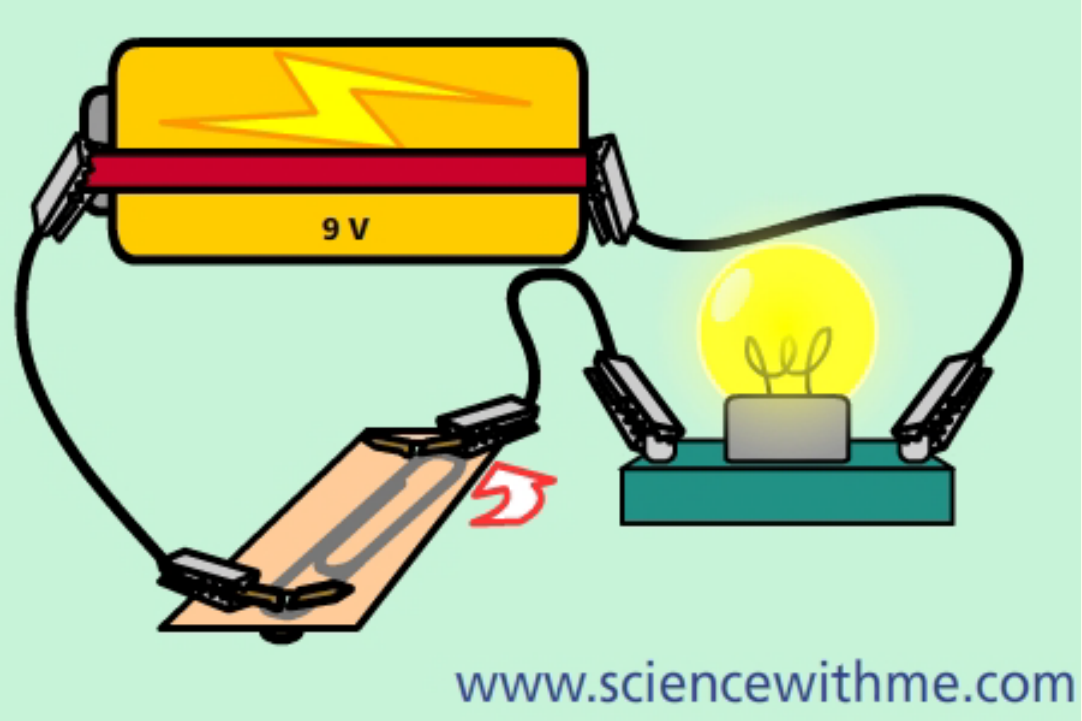
Step 6: Connect one of the alligator clips to the switch.



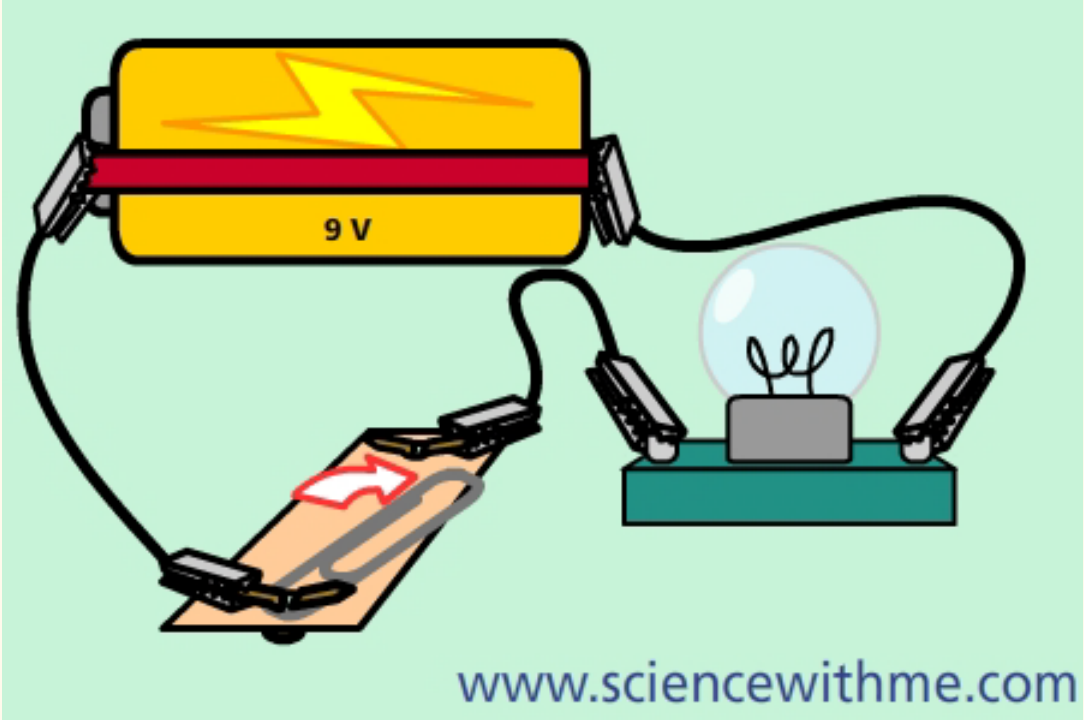
Step 7: Connect the other alligator clip to the bulb.



Step 8: Connect a third alligator clip to the second braid of the switch and the second metal connector on the light bulb.



Step 9: What happens when you push the paper clip against the metal brad and CLOSE the circuit?
Circle your answer below:
The light turns ON OFF



Step 10: What happens when you pull the paper clip away from the metal braid and OPEN the circuit?
Circle your answer below:
The light turns ON OFF