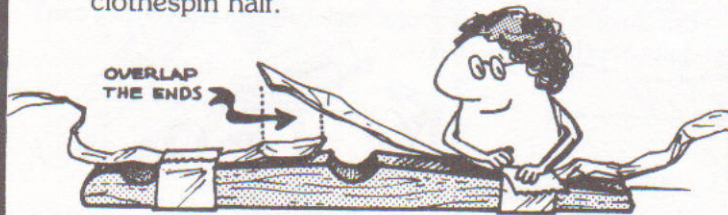
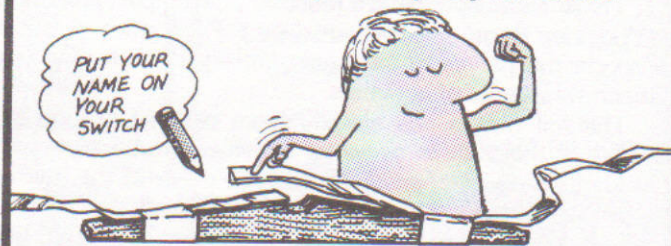


ELECTRIC BY-PASS

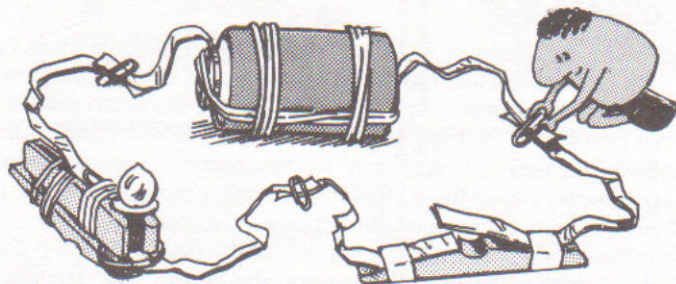
- 1 Make a switch: tape foil ribbons about 12 cm long (as long as 2 dry cells) to each end of a clothespin half.



- 2 Bend the top ribbon so it touches the bottom ribbon *only* when you push down.

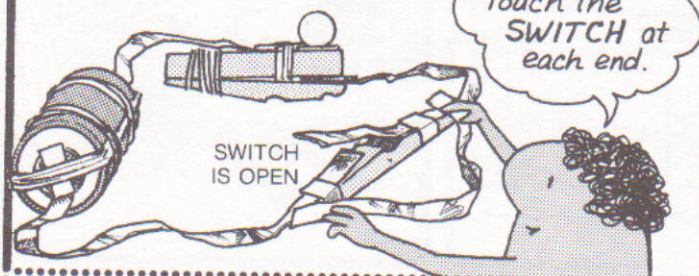


- 3 Build a circuit: connect your bulb, dry cell and switch with paper clips.



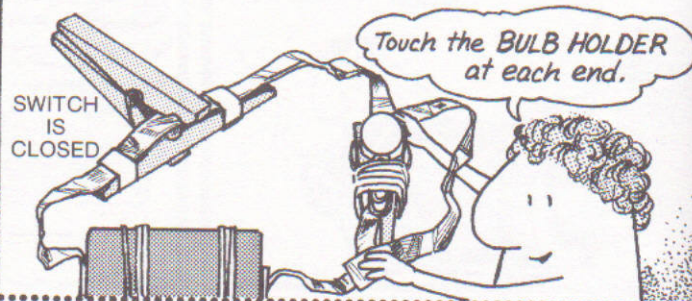
Tell how your switch is able to turn the light on and off.

- 4 By-pass your switch (in the *off* position) with another foil ribbon like this.



What happens to the bulb? Why?

- 5 Use another clothespin to keep your switch in the *on* position, then by pass the bulb.



What happens to the bulb? Why?