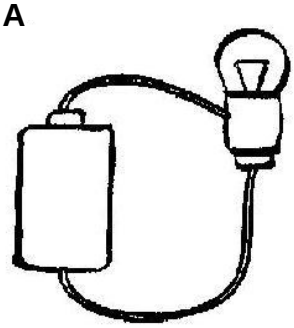
Electricity

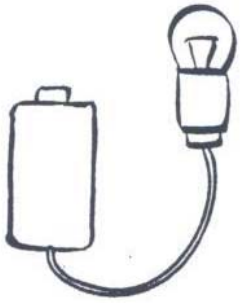
PostTest

1. Each picture shows a bulb connected to a battery by a wire. Which of these bulbs will light?

A



B



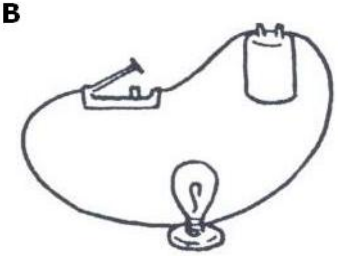
C

D

2. Each picture shows a battery, a bulb, and a switch. Which bulb will light when the switch is closed?

A

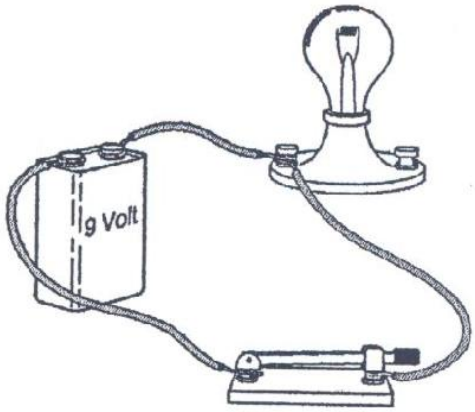
B



C

D

3. This electric circuit does not work.



What can you do to make the bulb light up?

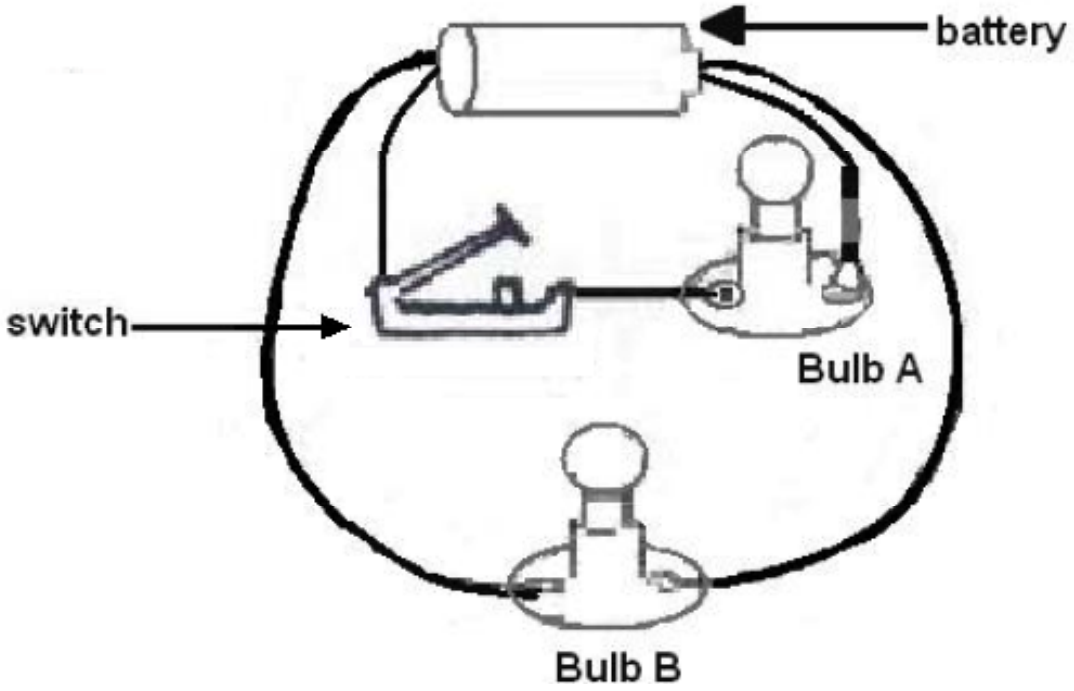
A. Use a new light bulb that is not broken.

B. Open the switch to the "ON" position.

C. Use two batteries instead of one.

D. Attach one wire to the other knob on the bulb.

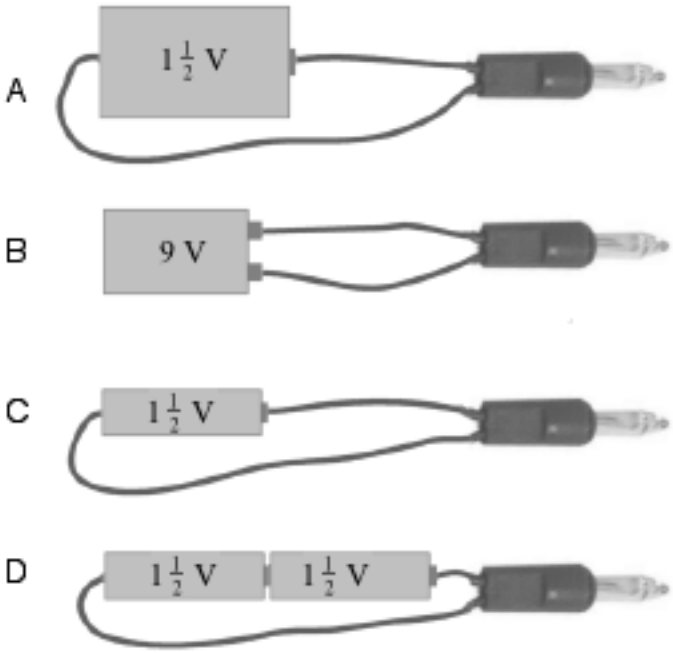
4.



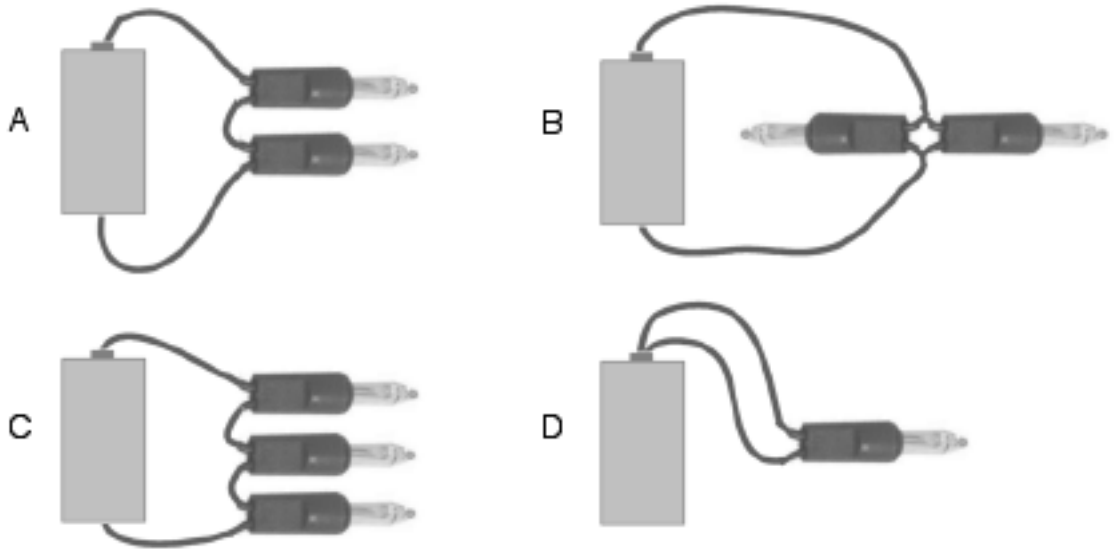
Bulb B lights up but Bulb A does not. What do you need to do to make bulb A light up? Why?

5. What does a battery do in an electric circuit?

6. In which of these circuits will the bulb glow the brightest?



7. If the battery is the same for all the circuits below, in which setup will the bulb or bulbs glow the brightest?



8. a. In the left box, draw a diagram showing a battery and two light bulbs in *series*.

b. In the right box, draw a diagram showing a battery and two light bulbs in *parallel*.

Light bulbs in series circuit	Light bulbs in parallel circuit

c. In which circuit will the light bulbs shine brighter? Why?