

## BULB BRIGHTNESS

How can I make the bulb brighter or buzzer louder?

Create a simple circuit containing:

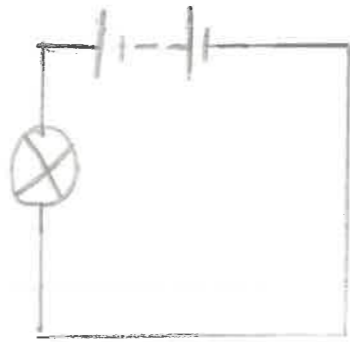
- battery
- wires
- switch
- buzzer OR bulb



- Can you make the bulb brighter or the buzzer louder?
- How did you do this?

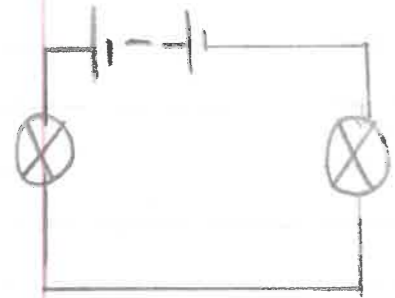
Draw your new circuit and explain what you saw.

What conclusions can you draw?



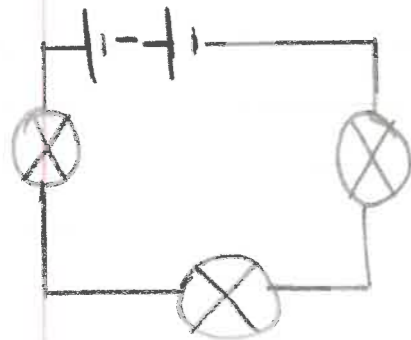
I predict that the light will be at a normal brightness.

In conclusion, my prediction was correct as it lit at a regular brightness.



I predict that that the bulbs will be dim as there is not much power being shared between them.

In Conclusion, my prediction was correct because the bulb was barely alight.



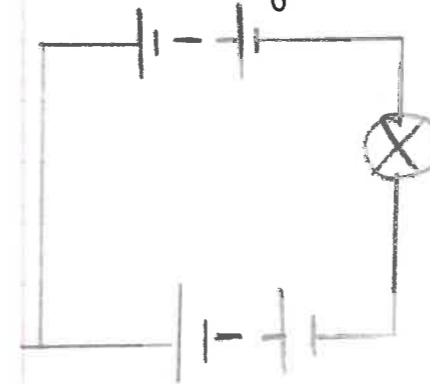
I predict that the bulbs will not light because there is not enough power being shared between the bulbs.

In Conclusion, my prediction was correct as the bulbs did not light up.

What conclusion can you draw?

I conclude that when adding more bulbs to a circuit with one battery that the light becomes dimmer as there is not enough voltage to share between more than one bulb.

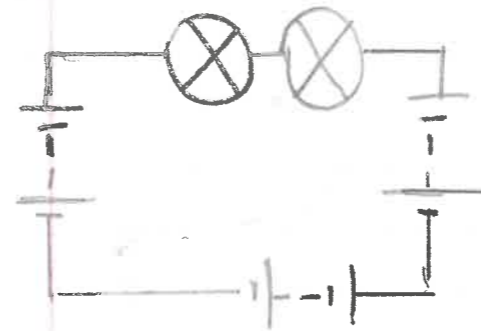
How do you think we can get the bulb brighter?



I predict that the bulb will be very bright because it has more voltage from the two batteries.

In Conclusion, my prediction was correct as the bulb was very bright.

How do you think we can make more than one bulb brighter?



I predict that the bulbs will be very bright as they have lots of voltage from the three batteries.

In conclusion, my prediction was incorrect as the bulbs were very dim.

In conclusion

In order to get a brighter bulb it is necessary to use more than one battery. This is because the more batteries the more voltage, the more voltage the brighter the bulb.