

Metals

- B. Did any conductor have a different effect on the light bulb than the others? Explain.

Because pencil lead (graphite) conducts electricity as a result of the "spare" electrons being delocalized between the layers, the bulb was brighter when Iron, Silver, Brass, or Copper was used as the conductor. So, while it's an excellent conductor, it's not quite as good as the others.

Activity B: Series circuits

Get the Gizmo ready:

- Click **Clear**.
- Check that **Show current** is on.
- Build the circuit shown to the right.



Question: In a **series circuit**, components are arranged in a single loop. What are the characteristics of series circuits?

1. **Observe:** Turn the **switch** to **ON**, which allows charges to flow through the circuit. Notice how brightly the bulb is lit and how much current (shown by the arrows) there is. Now start replacing wire segments with light bulbs. You can fit up to four bulbs in this series circuit.

- A. What do you notice about the brightness of the bulbs as you add more bulbs?

Because there is more electricity attempting to be distributed, the brightness decreases as you add more bulbs.

- B. Do all the bulbs have the same brightness?

Yes

- C. Look at the current arrows in each part of the circuit. Are there any parts of the circuit that have more current than other parts?

They all have the same number of currents, though.

2. **Explore:** Now remove a light bulb from your series circuit, leaving a gap. What happens to the remaining bulbs?

Due to the fact that they are connected in series, if one malfunctions the others also stop working.

3. **Extend your thinking:** Build another series circuit with several light bulbs, a 1.5-volt AA battery, and at least a few wire segments. Turn the **switch** to **ON**.

- A. How does a circuit with a 1.5-volt battery compare to a circuit with a 9-volt battery?

The brightness of the bulbs is decreased because there is less electricity.

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The Imagineers,Imagineers (Group)



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