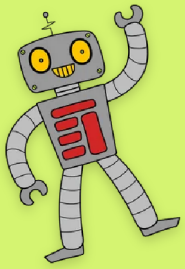
SCIENCE · ELECTRICITY AND CIRCUITS · GRADES 3–5

# Will the Bulb Light?



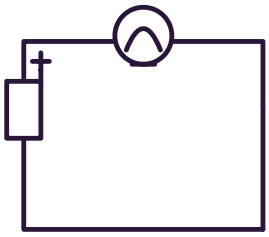
Look at four circuits, circle yes or no, then explain why an open circuit does not work.

**Name:** _____ **Date:** _____

A bulb lights only when the circuit is **closed**: a complete loop from the battery, through the bulb and back. A gap anywhere means an **open** circuit.

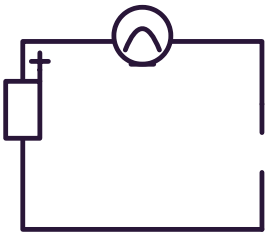
**1. Will the bulb light? Circle Yes or No.**

**1**



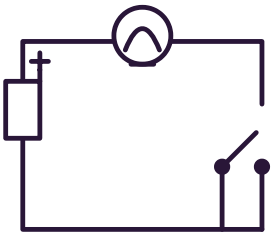
Yes No

**2**



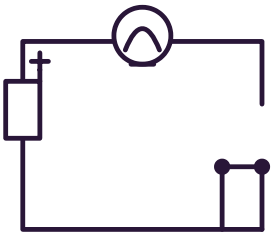
Yes No

**3**



Yes No

**4**



Yes No

**2. Why does a bulb go out when the circuit is open? Why does a light switch in your house work the same way?**



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