



Name

Date

 Students are experimenting to find out if different 4. types of batteries will affect the brightness of a light bulb. The materials for the investigation are shown below. (5.2.A)





- A. the light bulb
- B. the wires
- C. the different types of batteries
- D. the metal on the light bulb
- 2. The flow of electricity in circuits requires a complete path through which an electric current can pass. Which of the following can an electric current produce?
 - F. light
 - G. heat
 - H. sound
 - J. all of the above
- 3. Which of the following does NOT need an electrical circuit to operate correctly?



The parts of a light bulb work together as a system to produce light. The picture below shows a light bulb that produces light and a light bulb that does not produce light. (5.2.D)



Why does light bulb number two **NOT** produce light?

- F. The filament is broken and the circuit is open.
- G. The filament is not a conductor of electricity.
- H. The filament is an insulator.
- J. The filament is broken and the circuit is closed.
- 5. The picture below shows a complete circuit.



What would happen if the wire was cut between the two light bulbs?

- A. Both bulbs would remain lit.
- B. Both bulbs would not remain lit.
- C. Only one bulb would remain lit.
- D. The battery would light up.

