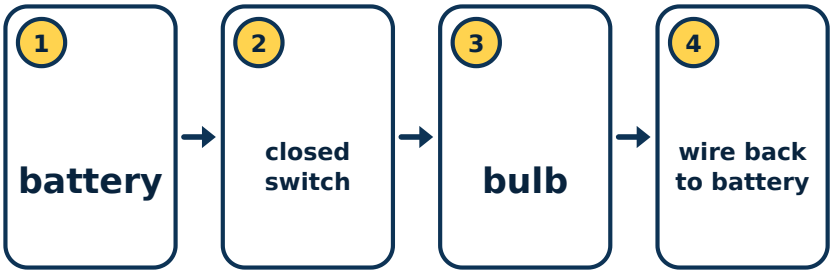
Simple Circuits

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A circuit goes battery, closed switch, bulb, then back to the battery. The bulb stays dark. The battery is new. What should you test next?



whether the bulb is burned out
whether the wires are too shiny
whether the battery is too new
whether the switch is open

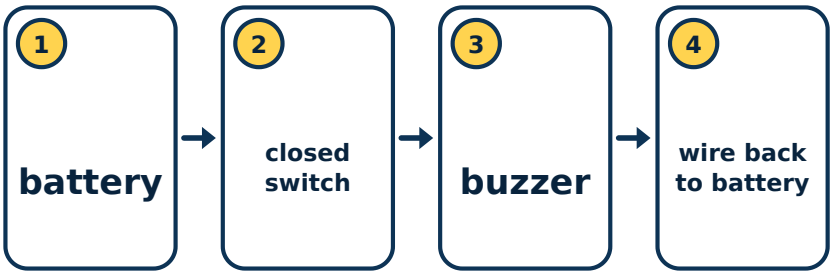
2. Which material stops electric current from passing through it?

a steel nail aluminum foil a plastic straw a copper penny

3. A burglar alarm must buzz when a window opens. Which design works?

opening the window removes the buzzer
a plastic strip fills the gap when it opens
opening the window closes a switch in the buzzer circuit
the buzzer is wired with no battery

4. This circuit has a closed switch and works. What does the buzzer give off?



light energy
electrical energy back to the battery
sound energy
motion energy only

5. A fan in a circuit spins and its motor gets warm. Which energy change explains both?

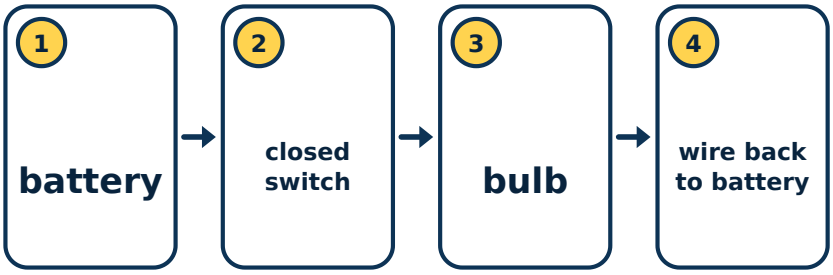
electrical energy to sound and light
electrical energy to motion and some heat
heat to electrical energy only
motion to electrical energy and light

Simple Circuits

Answer Key - Grade 4 Science Worksheet

Circle the answer.

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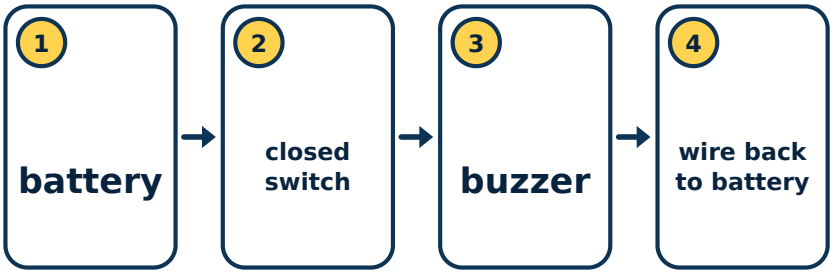
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