Simple Circuits

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A circuit has a battery, wires and a bulb. The bulb is dark. One wire touches only the battery's plastic case. Why?

   the wire is too long

   plastic does not conduct, so the loop is open

   the bulb needs two batteries to light

   the battery is too strong

2. Ana wants a circuit that rings a bell when a door opens. Which part must she add?

   a rubber band around the battery

   a switch the door can close

   a second bulb

   a longer plastic straw

3. Which device changes electrical energy mostly into sound?

   a heater a fan a lamp a speaker

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

   a plastic strip fills the gap when it opens

   opening the window removes the buzzer

   opening the window closes a switch in the buzzer circuit

   the buzzer is wired with no battery

5. A doorbell buzzer is in a circuit with a button switch. What happens when the button is pressed?

   the loop closes and the buzzer lights up

   the loop opens and current speeds up

   the loop closes and the buzzer makes sound

   the loop opens and the buzzer makes sound

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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