Simple Circuits

Grade 4 Science Worksheet - Building Confidence

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?

   plastic does not conduct, so the loop is open

   the bulb needs two batteries to light

   the battery is too strong

2. Which of these could be used to fix a gap in a circuit?

   a metal paper clip a paper towel a rubber eraser

3. Where does the current go after it passes through the bulb?

   out into the air back to the battery it stops inside the bulb

4. Ravi adds a second bulb to the same loop with one battery. Both bulbs are dimmer. Why?

   the battery's energy is shared by two bulbs

   the wires became insulators

   the second bulb blocks all the current

5. Why does the wire in a circuit get warm when current flows for a long time?

   some electrical energy changes to heat in the wire

   the wire makes new energy of its own

   the wire stores light energy inside it

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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