Simple Circuits

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. Why is the copper wire inside a cord covered in plastic?

   the plastic keeps current from reaching our hands

   the plastic helps current flow faster

   the plastic makes the wire light up

   the plastic makes the wire carry more energy

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

   the second bulb blocks all the current

   the battery made more energy

   the wires became insulators

   the battery's energy is shared by two bulbs

3. Which material lets electric current pass through it easily?

   a wooden stick a copper wire a rubber band a plastic spoon

4. Which explains why a bulb can light but a motor in the same kind of loop might not spin?

   motors work only with an open switch

   bulbs are insulators and motors are not

   the motor may need more energy than the battery gives

   motors do not use electrical energy

5. A solar panel runs a small fan. What energy changes happen?

   light to electrical energy, then electrical energy to motion

   sound to electrical energy, then electrical energy to light

   heat to motion, then motion to light

   motion to light, then light to sound

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Answer Key - Grade 4 Science Worksheet

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