Simple Circuits

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A student says, "The battery makes the bulb light, so the wire back to the battery is not needed." Why is this wrong?

   current needs a complete loop back to the battery

   the battery only works when it is warm

   the extra wire makes the bulb brighter

   the bulb needs two batteries to light

2. A loop with a battery, a closed switch and a bulb works. Ty adds a buzzer into the same loop. Now nothing works. What is most likely?

   the bulb now blocks all sound energy

   the switch opened when the buzzer was added

   the buzzer is broken and leaves a gap in the loop

   the battery got stronger with the buzzer

3. What does a buzzer change electrical energy into?

   cold light motion

   sound

4. A toaster changes electrical energy into which kind of energy?

   motion heat cold

   sound

5. A hair dryer blows warm air. What does it change electrical energy into?

   heat and motion light and sound only heat only motion only

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Answer Key - Grade 4 Science Worksheet

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