Energy Transfer Evidence

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A bell rings inside a sealed jar. As the air is pumped out, the ringing gets quieter. What does this suggest?

   the bell gets weaker on its own

   sound needs matter such as air to travel through

   light stops the sound

   sound travels better with no air

2. A flashlight with a dead battery does not light. A new battery makes it light. What does the new battery do?

   it turns the bulb into a battery

   it stops energy from moving

   it supplies energy that moves through the circuit

   it turns the switch into light

3. Two spoons of the same size, one metal and one plastic, stand in identical cups of boiling water. Each is placed in 100 mL of water that starts at 20 degrees Celsius. After 3 minutes the water with the metal spoon is 28 degrees and the water with the plastic spoon is 22 degrees. Which claim does the data support?

   the metal spoon added cold to the water

   heat moved to the water faster through the plastic spoon

   the spoons made no difference

   heat moved to the water faster through the metal spoon

4. A bulb lights when joined to a battery with two wires. A student takes one wire off and the bulb goes dark. What does this show?

   the bulb needs sound to light

   the battery made more energy when the wire was removed

   light cannot travel through wires

   electric current needs a complete path

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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