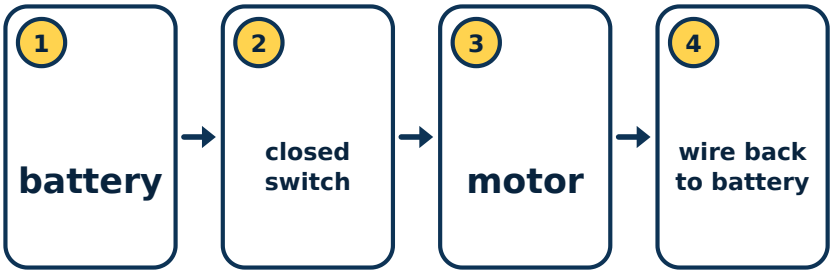
# Simple Circuits

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Look at the circuit. The switch is closed. What energy change happens in the motor?




electrical energy to sound only
electrical energy to motion
motion to electrical energy
electrical energy to light

2. A team designs a night-light that turns on in the dark. Which part changes electrical energy into the useful energy?

the battery the switch the bulb the wires

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

sound to electrical energy, then electrical energy to light
motion to light, then light to sound
light to electrical energy, then electrical energy to motion
heat to motion, then motion to light

4. A team wants a bike light that works without batteries. Which design idea fits?

a bulb with no wires
a small generator turned by the wheel
a longer battery cord
a plastic switch on the handlebar

5. What is the job of the wires in a circuit?

they make the energy for the circuit
they turn current into light
they carry current between the parts
they stop current from moving

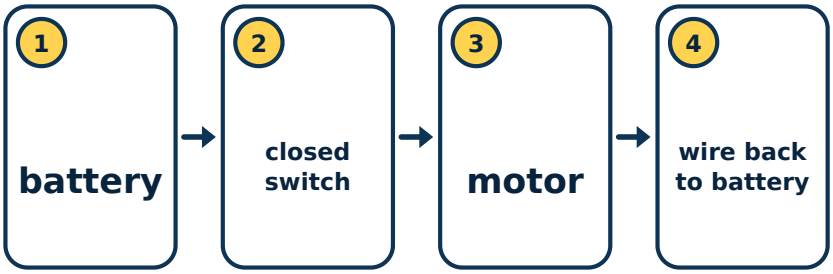
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Answer Key - Grade 4 Science Worksheet - Challenge Me

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