Name _____ Date _____ Class _____

School to Home **LESSON 2**

Electric Current and Simple Circuits

Directions: *Use your textbook to respond to each statement.*

1. **Many of the devices you use every day are powered by electric current.**

   Define *electric current.*

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   _____

2. **Electric current keeps flowing only if there is a closed path through which the electrons can flow. Electric circuits provide closed paths for electric current.**

   Describe a simple electric circuit.

   _____

   _____

3. **In a circuit, current flows from the source of energy, through wires to electrical devices, and back to the power source.**

   Describe what happens to the number of electrons in the wire and the electric charge on the wire as current flows through it.

   _____

   _____

4. **Electric resistance is a measure of how difficult it is for electric current to flow through an object.**

   Compare the electric resistance of conductors to the electric resistance of insulators.

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5. **Ohm's law is an equation that describes how the voltage, current, and resistance in a circuit are related.**

   State the Ohm's law equation.

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