

Chapter 2: Section 2 Electric Current

Resistance p. 50-51

FLIP #4

Directions: Watch the flip and then answer these questions.

1. What is resistance?
2. Explain what folding the straw does as a model of resistance.
3. The greater the resistance, the _____ there is for a given voltage.
4. What does an Ohm measure?
5. Give the symbol and unit of measure for the following:
 - a. Current---
 - b. Resistance---
 - c. Voltage---
6. What are the four factors that determine the resistance of an object (usually a wire)?
7. Circle the correct answers:
 - a. Long wires have more resistance than short wires
 - b. The electrical resistance of most materials decreases as temperatures increase.
 - c. Thick wires have more resistance than thin wires
 - d. Conductors have low resistance
 - e. Short wires have less resistance than long wires
 - f. Thin wires have more resistance than wide wires
8. If an electric charge can flow through either of two paths, more charges will flow through the path with _____.