

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) Why is copper used for wire in vehicles?

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2) What are ampere, volt, and ohm?

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3) What is electricity?

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4) What are the three examples of conductors and three materials that are insulators?

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5) What are five sources of electricity?

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6) What is the relationship between the length of a wire and its resistance?

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## Answer Key

Testname: AEEP8\_SHORT3

- 1) Copper is the conductor most used in vehicles because the price of copper is reasonable compared to the relative cost of other conductors with similar properties.  
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- 2) An ampere is the unit of the amount of current flow; a volt is a unit of electrical pressure and an ohm is a unit of electrical resistance.  
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- 3) Electricity is the movement of electrons from one atom to another.  
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- 4) Conductors include steel, iron, copper, aluminum, mercury, brass, and all other metals.  
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- 5) Sources of electricity include friction, heat, light, pressure, and chemistry.  
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- 6) If the conductor length is doubled, its resistance doubles. If the conductor diameter is increased, its resistance is reduced. As the temperature increases, the resistance of the conductor also increases.  
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