

Electricity & Magnetism 1: Choose the one best answer for each question.

1. What must happen for a light bulb to turn on in a simple circuit?
 A) The circuit must be open B) The wires must be plastic
 C) The circuit must be closed D) The battery must be removed
2. An open circuit means that:
 A) Electric current cannot flow B) The battery is stronger
 C) There are two power sources D) The light is brighter
3. Which material is a good conductor of electricity?
 A) Rubber B) Copper
 C) Plastic D) Wood
4. Which material is an insulator?
 A) Aluminum B) Steel
 C) Glass D) Iron
5. What is the main function of a switch in a circuit?
 A) To store electricity B) To open or close the circuit
 C) To increase voltage D) To create magnetism
6. Which component provides energy to a simple circuit?
 A) Wire B) Bulb
 C) Battery D) Switch
7. If one wire in a simple circuit is disconnected, the circuit becomes:
 A) Closed B) Parallel
 C) Insulated D) Open
8. Why are metal wires commonly used in electrical circuits?
 A) They are colorful B) They are good conductors
 C) They are lightweight D) They produce magnets
9. Which best describes electric current?
 A) Stored energy in a battery B) The movement of electric charges
 C) The brightness of a bulb D) The strength of a magnet

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