



Topic 2 - Electricity Within A Circuit

1. A circuit needs 4 components in order to operate effectively. The **conductor** in a neon light is the ...
 - A. on-off switch
 - B. neon gas
 - C. phosphor powder
 - D. power box
2. The component in the circuit that controls the flow of the electricity is the ...
 - A. source
 - B. load
 - C. conductor
 - D. switch
3. These types of conductors have no resistance to electron flow and therefore are considered to be perfect conductors. They are ...
 - A. metallic conductors
 - B. magnetic conductors
 - C. superconductors
 - D. superior conductors
4. Current is the rate of flow of charged electrons in a conductor, and is measured in ...
 - A. amperes
 - B. volts
 - C. ohms
 - D. milli-volts
5. The potential difference across two points is usually referred to as ...
 - A. micrometer
 - B. voltage
 - C. resistance
 - D. voltmeter
6. A waterfall can be used to model current, voltage and resistance. If a waterfall is wide and free flowing, it models high ...
 - A. voltage
 - B. current
 - C. amperage
 - D. resistance
7. What symbol does this  represent in an electrical circuit diagram?
 - A. lamp
 - B. switch
 - C. battery
 - D. resistor
8. In order to have a battery as a source of electrical current, you need ...
 - A. a switch
 - B. 2 loads
 - C. 2 cells
 - D. a conductor
9. The electrical component represented by this symbol  is...
 - A. volts
 - B. voltmeter
 - C. variable resistor
 - D. volta resistance
10. Comparing an electric current to a water system helps us model electrical principles. The water flows through the pipes in the system and is controlled by valves, which represent ...
 - A. loads
 - B. resistance
 - C. switches
 - D. conductors