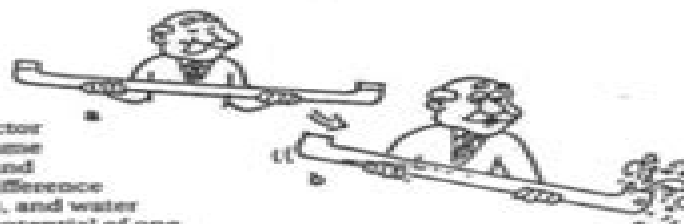


Concept-Development Practice Page

34-1

Electric Current

1. Water doesn't flow in the pipe when (a) both ends are at the same level. Another way of saying this is that water will not flow in the pipe when both ends have the same potential energy (PE). Similarly, charge will not flow in a conductor if both ends of the conductor are at the same electric potential. But tip the water pipe and increase the PE of one side so there is a difference in PE across the ends of the pipe, as in (b), and water will flow. Similarly, increase the electric potential of one end of an electric conductor so there is a potential difference across the ends, and charge will flow.



- a. The units of electric potential difference are
(volts) (amperes) (ohms) (watts)
- b. It is common to call electric potential difference
(voltage) (amperage) (wattage)
- c. The flow of electric charge is called electric
(voltage) (current) (power),
and is measured in
(volts) (amperes) (ohms) (watts)

A VOLT IS A UNIT OF Energy AND AN AMPERE IS A UNIT OF Current

DOES VOLTAGE CAUSE CURRENT, OR DOES CURRENT CAUSE VOLTAGE? WHICH IS THE CAUSE AND WHICH IS THE EFFECT?

2. Complete the statements:

- a. A current of 1 ampere is a flow of charge at the rate of 1 coulomb per second.
- b. When a charge of 15 C flows through any area in a circuit each second, the current is 15 A.
- c. One volt is the potential difference between two points if 1 joule of energy is needed to move 1 coulomb of charge between the two points.
- d. When a lamp is plugged into a 120-V socket, each coulomb of charge that flows in the circuit is raised to a potential energy of 120 joules.
- e. Which offers more resistance to water flow, a wide pipe or a narrow pipe? Narrow. Similarly, which offers more resistance to the flow of charge, a thick wire or a thin wire? Thin.

Concept Development 34 Physics

Emily Fabiano



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