

Electricity Notes

Ohm's law describes the relationship between current, _____ and resistance

- Electric potential energy and Voltage

Voltage is the common name for

_____ and is measured in
_____ (V)

- Electric potential energy

Energy is the ability to do work.

Kinetic energy is energy a moving object has because of its motion

Potential energy is the energy stored in an object

- Electric potential energy

The electrical energy stored in a battery is called

Ohm's law describes the relationship between _____, voltage and resistance

- Current Electricity

_____ electricity is the flow of charged particles in a complete circuit

The unit for measuring electric current is the _____ (A)

Ampere (A) defined as one coulomb of charge passing a given point per second

- Circuit

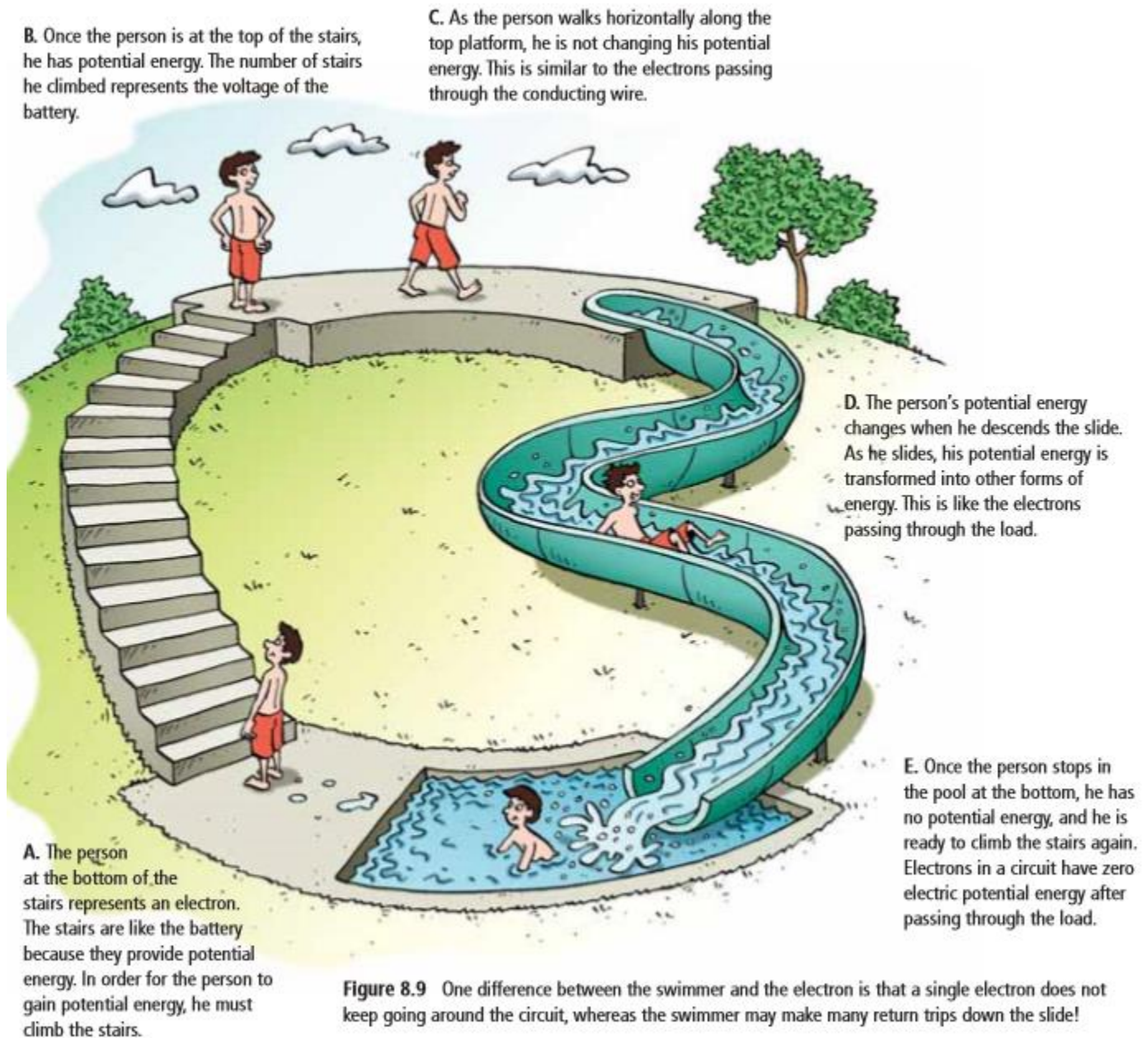
To have a continuous flow of charge, the circuit must contain at least one source of

- Circuit

In a _____, electric potential energy is transformed into other forms of energy

Circuit diagrams are drawn to represent electric circuits

Energy around a circuit



What happens if you increase the number of stairs leading up to the slide?

What happens if you narrow the slide that the swimmer must go down?

- Circuit Components & Diagrams

4 basic types of parts

- Source: the source of electrical energy
- _____: the wire through which electric current flows
- _____: a device that transforms electrical energy into other forms of energy
- Switch: a device that can turn the circuit on or off by opening or closing the circuit

Circuit Diagrams

Diagrams that use _____ to represent the different components of the circuit

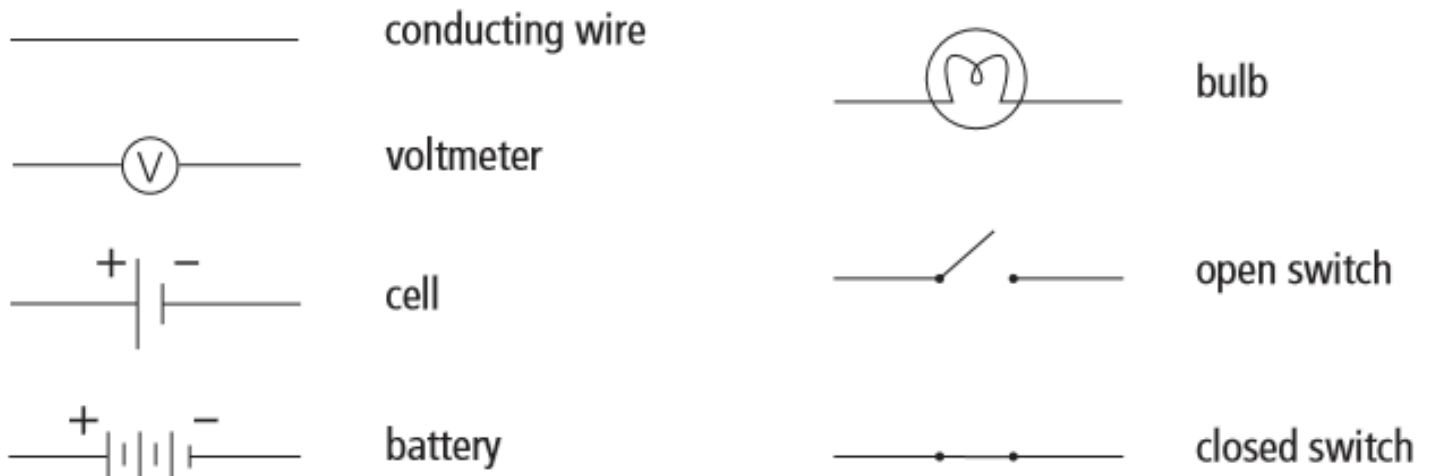
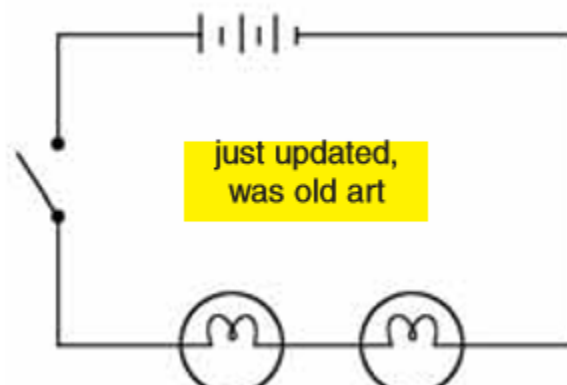
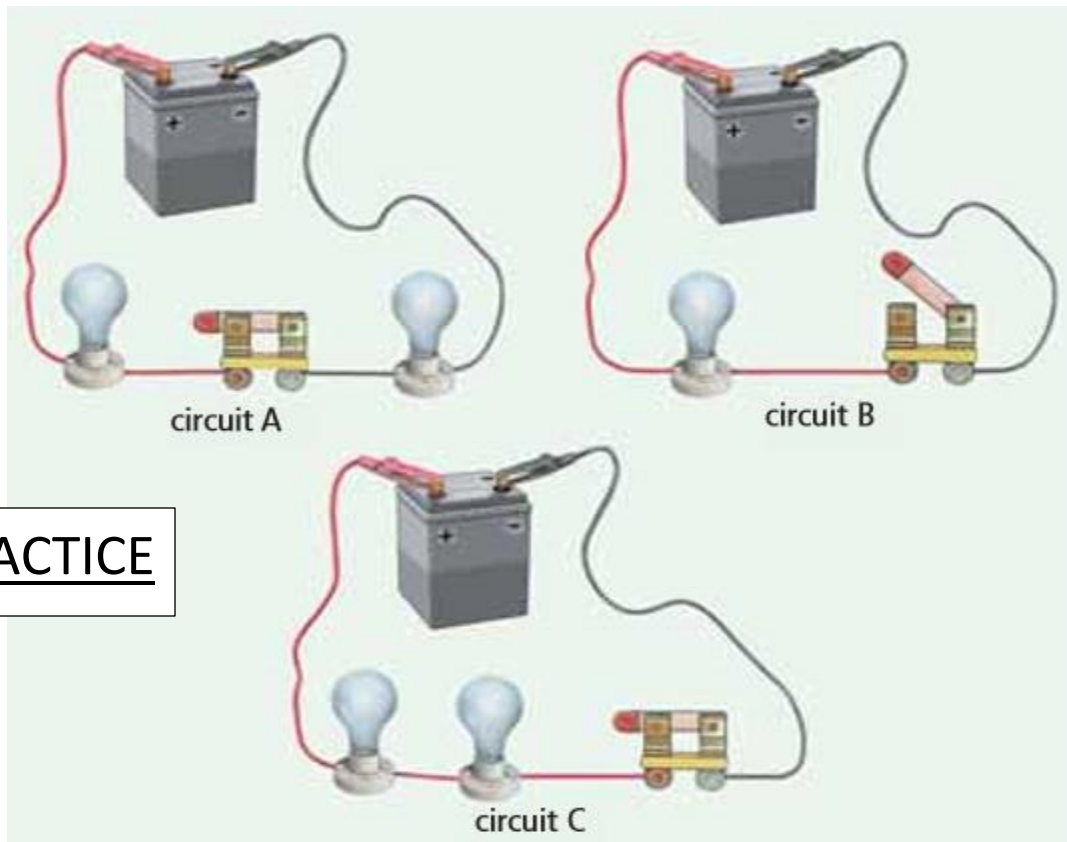


Figure 8.10 Circuit symbols help simplify complex circuits.





PRACTICE

A

B

C