Electrical Connections

GLOSSARY

- battery A group of two or more electrochemical cells connected together; also, the more commonly used word to refer to one electrochemical cell, or D-cell.
- circuit A path through which electric current flows, transferring electric energy; consists of an energy source, a conducting path, and a receiver that converts the energy to another form, such as light.
- **circuit diagram** A representation of an electrical circuit using symbols.
- **closed circuit** A complete circuit through which electrons (electric current) can flow.
- **conductor** A material through which electrons can move easily.
- **current electricity** A continuous flow of electrons.
- **electric current** A continuous energy transfer by moving electrons.
- electric motor A device in which the magnetic field of a magnet interacts with the magnetic field of a current-carrying wire coil and causes rotation.
- electromagnetic field The magnetic field existing around objects that have electric current flowing through or around them.
- electromotive force A force that pushes electrons through a circuit, thus creating a current.
- **electroscope** A device used to detect static charges.
- energy Commonly defined as the ability to do work. Energy brings about changes in systems or their surroundings.
- **fixed resistor** A resistor that has one value of resistance.
- galvanometer A device that is used to detect electric current.

- insulator A material through which electrons cannot move easily.
- knife switch An electric switch in which contact is made by pushing one or more flat metal blades between the jaws of spring clips.
- **open circuit** An incomplete path for electric current; electrons cannot flow through it.
- parallel circuit A circuit in which there is more than one path for a current to follow.
- potentiometer A variable resistor that is used to control voltage, as in the volume control of a compact disc player.
- resistance A measure of a material's ability to hinder the passage of electric current through it.
- resistor A device that hinders the passage of current.
- **rheostat** A variable resistor used to control the current in a circuit.
- series circuit A circuit in which there is only one path for a current to follow.
- **static charge** The electric charge that resides on an object as a result of excess positive or negative charge.
- **switch** A device that is used to open and close circuits.
- three-way switch A configuration of doublethrow switches that allows independent control of electric devices from two positions.
- two-way switch A switch that has two connecting terminals on each switch.
- variable resistor A resistor whose resistance can be changed.

Note: The Delta Science Reader includes its own glossary of terms.

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