absorb to take in or soak up (SRB, IG)

attract to pull toward each other (SRB, IG)

battery a source of stored chemical energy (SRB, IG)

bulb base the area on a lightbulb where one of the filament support wires extends down to the metal bead (IG)

bulb casing the inside of the metal screw case on a lightbulb where the second filament support wire connects (IG)

circuit a pathway for the flow of electricity (SRB, IG)

closed circuit a complete circuit through which electricity flows (SRB, IG)

code a set of signals that represents letters or words for sending messages (SRB, IG)

coil a series of loops (SRB, IG)

color the result of the light an object radiates or reflects (IG)

compass an instrument that uses a free-rotating magnetic needle to show direction (SRB, IG)

complete circuit a circuit with all the necessary connections (SRB)

component one item in a circuit (SRB, IG)

conductor a substance, commonly a metal such as copper or aluminum, through which electricity will flow (IG)

contact point the place in a circuit where connections are made to allow electricity to flow (SRB, IG)

core in an electromagnet, the material around which a coil of insulated wire is wound (SRB, IG)

D-cell a source of electricity; also known as a battery (IG)

electrically neutral an object that has equal numbers of positive and negative charges (SRB)

electric current the flow of electricity through a conductor (SRB, IG)

electricity energy that flows through circuits and can produce heat, light, motion, and sound (SRB, IG)

electromagnet a piece of iron that becomes a temporary magnet when electricity flows through an insulated wire wrapped around it (SRB, IG)
**em**

**electromagnetism** a property of electric and magnetic fields that causes interactions with electric charges and currents  (SRB, IG)

**electron** a tiny particle that has a negative charge and goes around the nucleus of an atom  (SRB)

**energy** the ability to do work  (SRB, IG)

**energy source** a place where energy comes from, such as batteries, food, fuels, and the Sun  (SRB, IG)

**filament** the material in a lightbulb (usually a thin wire) that makes light when heated by an electric current  (SRB, IG)

**force** a push or a pull  (SRB, IG)

**fossil fuel** the preserved remains of organisms that lived long ago and changed into oil, coal, and natural gas  (SRB)

**fuel** a source of energy when burned  (IG)

**generator** a device that produces electricity from motion  (SRB)

**gravity** a force that pulls objects toward each other  (IG)

**heat** observable evidence of energy  (SRB, IG)

**incomplete circuit** a circuit that has a break in it  (SRB)

**induced magnetism** the influence of a magnetic field on a piece of iron, which makes the iron a temporary magnet  (SRB, IG)

**insulator** a material that prevents the flow of electricity, commonly plastic, rubber, glass, or air  (IG)

**interact** to act on and be acted upon by one or more objects  (SRB, IG)

**iron** a metal that sticks to a magnet  (SRB, IG)

**key** a switch that completes the circuit in a telegraph system  (SRB, IG)

**light** observable evidence of energy  (SRB, IG)

**lightbulb** a filament held by two stiff wires and surrounded by a clear glass globe  (SRB, IG)

**light source** anything that makes light, such as the Sun, a lightbulb, or a flame  (SRB)

**magnet** an object that sticks to iron or steel  (SRB, IG)

**magnetic field** an invisible field around a magnet  (SRB, IG)

**magnetism** a property of certain kinds of materials that causes them to attract iron or steel  (SRB, IG)

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**metal** a conductor for electricity (IG)

**mirror** a shiny surface that reflects light (SRB, IG)

**motion** observable evidence of energy (SRB, IG)

**motor** a device that produces motion from electricity (SRB, IG)

**negative charge** (–) the charge of an electron (SRB)

**north pole** the end of a magnet that orients toward Earth’s magnetic north pole (SRB, IG)

**open circuit** an incomplete circuit through which electricity will not flow (SRB, IG)

**opposite** different as in the two poles of magnets (IG)

**orient** to position an object in a certain way (SRB)

**parallel circuit** a circuit that has two or more pathways for current to flow (SRB, IG)

**permanent magnet** an object that sticks to iron (SRB, IG)

**pole** the end of a magnet (SRB, IG)

**positive charge** (+) the charge of an atom’s nucleus (SRB)

**predict** to make an educated guess based on data or previous experience (IG)

**prism** a piece of transparent material that separates light into a spectrum (IG)

**property** something you can observe about an object or a material (SRB)

**ray** an electromagnetic wave of light (IG)

**reflect** to bounce back (IG)

**reflection** the bouncing of light rays off an object (SRB, IG)

**refract** to change the speed and direction of travel (IG)

**refraction** the bending of light rays (SRB, IG)

**repel** to push away from each other (SRB, IG)

**rivet** a piece of iron or steel around which a coil is wound (IG)

**series circuit** a circuit that has only one pathway for current to flow (SRB, IG)

**shadow** the dark area behind an object that blocks light (SRB)
shaft the part of a motor that rotates when energy is present (IG)

short circuit an unintended pathway that allows current to flow from one terminal of an energy source directly to the other terminal without passing through any other component (IG)

solar cell a silicon cell that converts sunlight into electric energy and is used as a power source (IG)

sound observable evidence of energy (SRB, IG)

south pole the end of a magnet that orients toward Earth’s magnetic south pole (SRB, IG)

static electricity positive and negative electric charges that don’t move and are separated from each other (SRB)

steel a material made mostly of iron (IG)

stored energy energy available for use (SRB)

switch a device used to open and close circuits (IG)

system a set of objects that are related in some way and can be isolated for study (IG)

telegraph a device that uses an electromagnet to send coded messages by closing and opening an electric circuit (SRB, IG)

temporary magnet a piece of iron that behaves like a magnet only when it is surrounded by a magnetic field (SRB, IG)

terminal the term used to refer to the ends of a battery (IG)

transfer to move from one source to another (IG)

transmit to pass through (IG)

vibration a quick back-and-forth movement (SRB)

white light a mixture of all colors (wavelengths) of visible light (IG)

wire a metal or other solid substance through which electric current moves (SRB, IG)