

**static electricity**

an electrical charge that builds up on an object

**current electricity**

a steady flow of electrons through certain materials

**series circuit**

a circuit that has only one path for an electric current to follow

**parallel circuit**

a circuit that has two or more paths for an electric current to follow

**conductor**

*(conductivity)*

a material that lets electrical charges travel through it easily; path for electrons (*copper, silver, metals*)

*the ability to transfer heat, sound, or electricity*

**insulator**

*(insulation)*

a material that ***DOES NOT*** let electrical charges travel through it easily; keeps electrons in (*plastic, rubber, glass*)

*the process of keeping heat, sound, or electricity from spreading*

**magnet**

an object that attracts iron and a few other (*but not all*) metals

**magnetic poles**

the parts of a magnet at which its force is strongest

*(North and South poles)*

**electromagnet**

a temporary magnet caused by an electric current

**magnetic field**

the space around a magnet in which the force of the magnet acts

**generator**

a device that uses motion to make electricity (by turning a turbine)

**electric motor**

a device that uses electrical energy to produce motion (*mechanical energy*)

**potential energy**

energy that an object has because of its position or its condition  
(*stretched rubber band / top of a hill*)

**kinetic energy**

**energy of motion**  
(*ball rolling down a hill*)

**chemical energy**

**energy that is stored and can be released**

**mechanical energy**

the total potential and kinetic energy of an object that is doing work

**geothermal energy**

**energy used from the heat  
inside the earth**

**hydroelectric power**

**energy used from the kinetic  
energy of moving water**

**solar energy**

**energy used from the sun**

**fossil fuels**

*(non-renewable energy)*

**coal, oil, and natural gas made from  
the remains of living organisms  
(fossils) *that cannot be reused***

**conserve**

**to prevent waste or loss**

**renewable energy**

**energy from resources that can  
be naturally replenished  
*(water, sunlight, heat, wind)***

