Vocabulary: Electromagnetic Force & Electricity

Vocabulary

electric force:	 The attraction or repulsion between electric charges. Electric force causes static electricity and drives the flow of electric charge (electric current) in electrical conductors.
electric field:	The region around a charged object where the object's electric force interacts with other charged objects.The electric force is caused by the electric field.
magnetic force:	The attraction or repulsion between magnetic poles.A force is a push or a pull that can cause an object to move.
magnetic field:	The region around a magnet where the magnetic force is exerted.The magnetic force is caused by the magnetic field.
electromagnetism:	 The relationship between electricity and magnetism. Wherever there is electricity, there is magnetism. An electric current produces a magnetic field.
electric current:	 The continuous flow of electric charges through a material. The amount of charge that passes through a wire in a unit of time is the rate of electric current—the unit name for the rate of current is the ampere (shortened to amp). The number of amps describes the amount of charge flowing past a given point each second.
electromagnetic force:	 The electric and magnetic fields are so interconnected that they are referred to simply as the electromagnetic field. The presence of an electric field will actually produce a magnetic field. A change in the magnetic field will produces an electric field. The electromagnetic force is the force exerted by the electromagnetic field on any charged particle. The electromagnetic force is based on charge and distance.
Coulomb's law:	 The law that describes the electric force between two charged particles: Charged particles exert a force on each other. Like charges repel each other; opposite charges attract each other. The greater the distance between charges, the less force they will exert on each other. The greater the distance between charges, the less force they will exert on each other.