Name:	
Date:	

7.2 Electrical Force

A force is a acting on an object — electric force can do both, without actually touching the object Electric Force is an force — a force can be applied without touching
noice — a force can be applied without touching
Laws of Static Charge
What happens when you put charges together? ie/ two positives
How about charges?
What about aobject (positive and negative charges are balanced) - Attracted toobjects
Charles Coulomb observed that electric force isto charge
 the amount of charge electric force
the amount of charge, likewise, electric force
Coulomb also observed that if you the distance between charged objects, you
the electric force
distance will the electric force
– ability of materials to allow electrons (-) to move freely
 – a material that allows electrons to change positions – In a conductor – electrons (-) are NOT as tightly bound to nuclei (+), therefore can
move away
 a material that holds on to its electrons, electrons are not able to move easily Electrons are bound tightly to the nuclei so they resist movement
Charging by (see page 259)

-	Charging through Electrons move to a location where there is less of them
	by (see page 260) Let's say we have a (-) charged object that is brought close to a neutral object (objects do NOT touch)
-	Within the neutral object, the like charge (-) will be away from the charged object (also (-)) This results in the opposite charge (+) remaining on the side to the charged object (-)
-	Overall the neutral object is still neutral, it just has a positive pole (end) and a negative pole The neutral object is then connected to the ground, electrons (-) flow further from the charged into the
-	When ground connection isthe object will then have the charge (+) to that of the charged object