Physics 12 Lesson 1 Electrostatics (fill-in-the-blank pg 258 - 264)	Name: Key	Blk:
attracted small pieces of leaves and straw.	amber was rubbed wi	th fur and
Volta, in 800, produced the first 8 Static Floatisity	<u>_</u> .	
Static Electricity The Greek word for amber (fossilized tree sap) is	stron"	
Static electricity is electricity at ConductorS are materials that allow electrons to flow are good conductor	are material ares. Some insulators include the amber effect through a mode one object to another. Indicate the desired by rubbing. Protogether is a positive charge results from the content of the cont	of matter in sons are fixed. A
When rubber rod is rubbed with Or	the rod becomes Notice the rod becomes	egative
 Like charges	1	
Charging by Induction	, ,	
If a charged rod is brought close to, but not themselves within the conductor.	, a conductor, the <u>electron</u>	$\frac{2}{2}$ will rearrange
 A <u>thanged</u> rod (not touching electroscope. A <u>charged</u> rod (not touching electroscope. In both cases the electroscope leaves will <u>divergent</u> area. 	g) will attract electrons to the head go will repel electrons from the head until the charged rod is remove	

• If the electroscope is grounded while the charged rod is near, what happens? What charge does the electroscope have after charged rod is removed?
· + rod grounding will add e- to scope -> neg charge
o -rod 11 " remove e from scope -> pos charge
Explain how to use an electroscope to determine the charge on an object. - put known charge on the scope (say pos) then if pring other object "near" - if leaves diverge further, then positive " move together, " nea. - opposite reactions if scope charge is neg.
Charging by Contact
When a neutral pith ball, or any neutral object actually, touches a positively charged object, some are transferred the pith ball making the pith ball when a neutral pith ball touches a negatively charged object, some are transferred the pith ball making the pith ball
Walk across carpet - you become "-", et jump to door knob
Dryer static- diff materials touch and pull apart, get opp. charges so cling.
Thunderstorms-clouds charge from touching, induce charge on D's surface, e- jump down
Balloon on wall- balloon contacts hair/shirt, balloon induces opp, charge on wall so attracts
Law of Conservation of Charges: Electric charges are <u>Neither created nor destroyed</u> - they are just moved from one place to another.