	ysics 100	Name:			
No	nit 2: Electricity otes, part 2: Tex eld, Etc.	tbook Chapter 18.1–18.3 Conductors & Insulators, Electric			
<u>Co</u>	Conductors and Insulators				
1.		_ allow electrons to easily move through them. List some examples			
2.	examples.	do not allow electrons to move through them. List some			
3.	Protons	(can/cannot) flow through solid conductors.			
4.	<b>Ground</b> : a large, ne purposes	cutral source of charge (like the Earth). The ground can serve two			
	"The ground" can				
	"The ground" can				
5.	What happens to c	an object when the object is "grounded?"			
6.	What other objec	ts, other than the Earth, could be used to ground something?			

7. What is a	an electric field?	
8. What cre	cates an electric field?	
9. <u>Electri</u>	c Field Hockey (pHet Simulation)	
	<ol> <li>Find and run the simulation.</li> <li>Click the "Field" and "Trace" buttons.</li> <li>Try to win levels 1 and 2.</li> <li>What happens when you turn off "puck is positive," so that the puck negative?</li> </ol>	becomes
10. <u>Interes</u> t	ring (and important) facts:	
Fact #1: that are	Charges "leak away" from surfaces of charged conductors	E <sub>tot</sub>
This exp	ains why lightning rods are added to buildings:	* *
	explains why the surface of a Van de Graaf generator is	
	The electric field inside a conductor is	This is why
one of th	e safest places to be during a lightning storm is	-