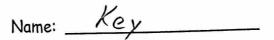
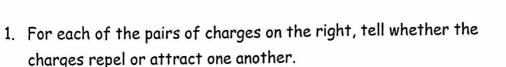
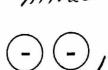
Physics	100
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Unit 2: Electricity

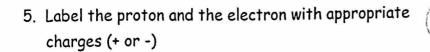
Practice Quiz 1

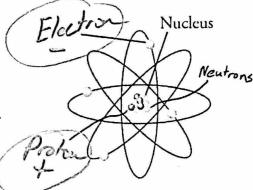




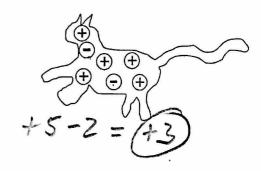


- 3. On the diagram to the right, write "proton" next to the line that points to a proton.
- 4. Write "electron" on the line that points to an electron.

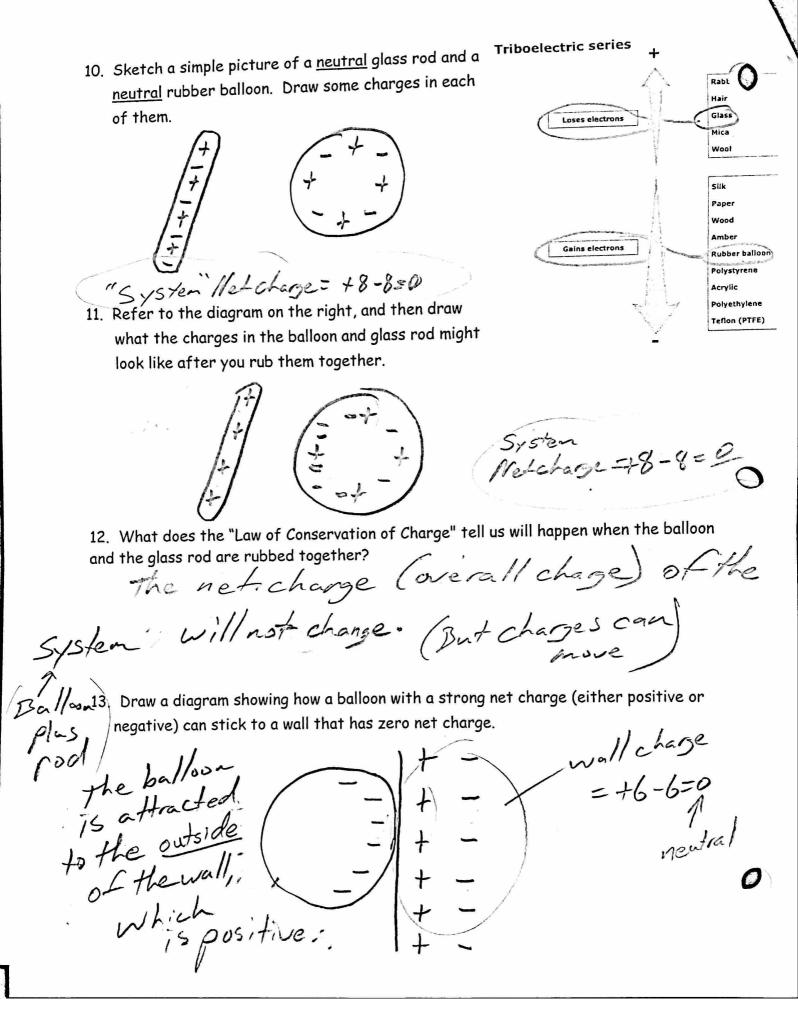




- 6. When two objects are rubbed together, and static electricity is created, which type of particle gets transferred?
- 7. Which has a stronger charge?
 - a. a proton b. an electron
 - c) neither, they're equally strong
- 8. What is the net charge of the object on the right?



- 9. Why is static electricity called "static?"
 - a. It looks like static on a T.V.
 - b. When someone "gives you static," it's irritating, like a shock from static electricity.
 - c. The existence of static electricity was proven by using statistics.
 - (d.) Static charges don't generally move. They don't flow like electric current.



0	14. When electric charge is able to move easily through a material, that material is called	
	a(n) <u>conductor</u>	
	15. When electric charge is not able to move easily through a material, that material is	
	called a(n) insulator.	
	16. Suppose it's winter, and you have been building up some static charge. When you get out of your car at a gas station, you touch the metal of your car door and get a shock.	
	a. When you feel the shock, there are two possible causes for the shock. What are they? Electrons are passing into your body or electrons are	
Ò	passing out of your body.	
b. Is it now safe to pump your gas? Explain. Les. You should be newtral at this		
b. Is it now safe to pump your gas? Explain. Yes. You should be newtral at this point, so your body won't attract or repel a new "spark" of electrons.		
	17. In the diagram on the right, the arrows show an area where electric force can push or pull a charged particle.	
	a. The arrows in this diagram are illustrating an	
	area called a(n) electric field	
)	b. What type of charge would travel in the direction shown by the arrows? A positive charge	
	Apositive charge [repelled by positives; attracted by regardnes]	

18. Why do the makers of Van de Graaff generators and power lines try to make sure that these objects have smooth surfaces?

Pointy parts cause charges to leak away from charged conductors

19. During a lightning storm, is the inside of a metal cage (like a car) a safe place to hide? Explain why or why not.

Yes! The electric field inside a conductor is always Zero.