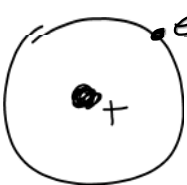


PS - May 5

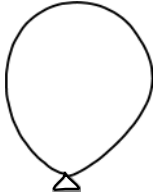
Atom has charges



Nucleus


$6 e^-$   
 $6 p^+$

no net charge  
(left over unbalanced)



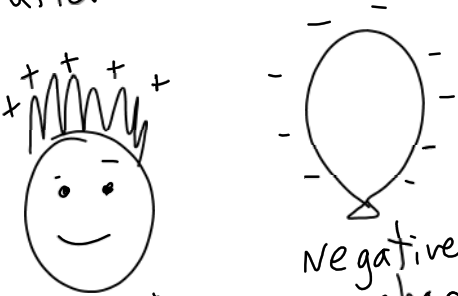
charged? No  
charges? yes

(Before)



electrons will be scraped off of the fur and end up on balloon.

after


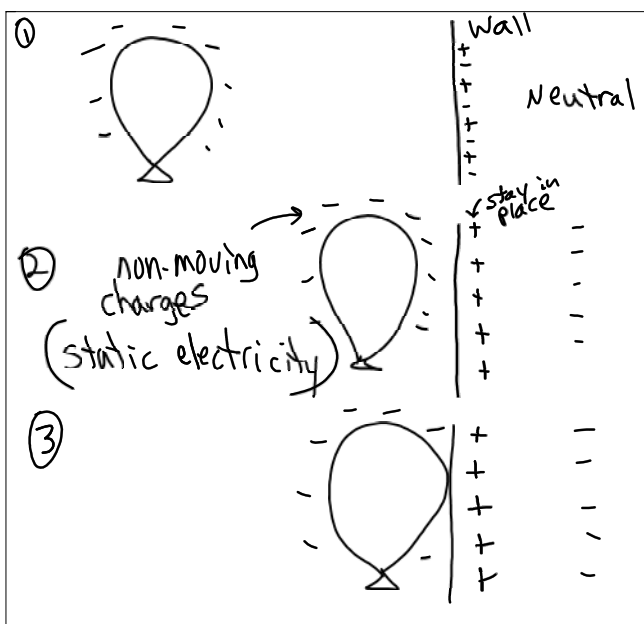


$6 p^+ + 6 e^- = \text{neutral}$   
 $6 p^+ + 5 e^- = \text{positive charge}$

Negatively charged

- opposite charges attract
- same charges repel

walk on carpet (fur)  
with rubber-soled shoes  
balloon

Three ways to charge something

1. Friction - (rubbing) electrons are moved from one material to another
2. conduction (touching)
3. Induction - charging by moving a charged object near a neutral object and causing it to be charged.