**Chemistry WU-**

-> What are the charges on a proton and electron?  
Protons are positive charges and Electrons are negative charges.  
  
  
-> How many neutrons in 37/17 Cl?  
Mass # - Atomic Number= Neutrons   
37-17=20n  
  
**Notes:**  
**Ions**-  
+ (Protons) and **– (Electrons)** charges Adding electrons -> becomes more negative  
Remove electrons -> become more positive   
For any neutral atom- #of Protons = #of Electrons   
  
**Example**= 16/8 Oxygen -2  
Protons= 8  
Electrons= ? -> 10  
Neutrons= 8  
Due to the -2 charge on the side of oxygen, you’re going to add 2 electrons.   
Protons = Electrons but,   
8 electrons + 2 electrons= 10 Electrons   
  
**Example 2**= 13/6 C -4  
Protons= 6  
Electrons= ? -> 10  
Neutrons= 7  
Due to the -4 charge on the side of Carbon, you’re going to add 4 electrons.  
Proton = Electrons but,   
6 electrons+ 4 electrons= 10 electrons.

**Example 3**= 40/20 Ca +2  
Protons= 20  
Electrons= ? -> 18  
Neutrons= 20   
Due to the +2 charge on the side Calcium, you’re going to subtract 2 electrons.  
Protons = Electrons but,  
20 electrons – 2 electrons = 18 electrons  
   
   
Plasma- is a gas, Adding energy and a lot of heat, also known as Ionized Gas. Ion sized means positive and negative particles.