**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.