**Protons, Neutrons, and Electrons – Formula Sheet:**



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| **Number of Protons:** | $$P=Atomic Number (Z)$$ |
| **Number of Neutrons:** | $$N=Mass Number \left(A\right)-Atomic Number (Z)$$ |
| **Number of Electrons:** | $$E=Atomic Number \left(Z\right)-Charge (C)$$ |
| **Ion Charge:** | $$C=Protons-Electrons$$ |
| **Average Atomic Mass:** | $$amu= m\_{1}P\_{1}+m\_{2}P\_{2}+m\_{3}P\_{3}$$ |