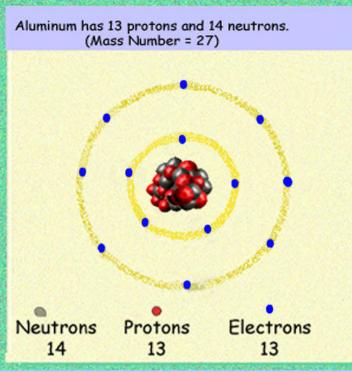
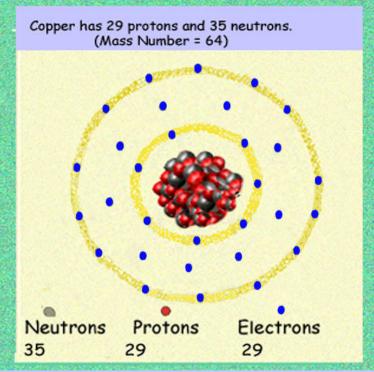
Cause #1: The Mass of the Atoms

Different types of atoms have different masses because they have different numbers of protons and neutrons.





^{*}Protons and neutrons have the same mass It would take 1836 electrons to weigh as much as a proton or neutron. (That's why we don't bother to think about the electrons when we calculate atomic mass.)

^{*}The places where you see space between the nucleus and the electrons do NOT have air in it. (It wouldn't fit there!)