**atom**

* The smallest possible unit into which matter can be divided, while still maintaining its properties (ex. gold bar and a gold atoms have the same properties)
* Made of a nucleus that contains protons (+) and neutrons (0); electrons (-) surround the nucleus in the electron cloud
* Elements are specific types of atoms with different properties and can be found on the periodic table; defined by their subatomic particles (protons, neutrons, and electrons)



**Atomic number** (# p+)

**Chemical symbol**

**Element name**
**Atomic mass** (p+ + n0)

**Nucleus**: middle of the atom; most of the mass

 **Proton (+)
 Neutron (0)**

**Electron Cloud**: surrounds the nucleus; mostly empty space

 **Electron (-)**