## **Atomic Mass**

- Weighted average of all isotopes of an element
- These are relative masses (the mass of one type of atom compared to another)
- In atomic mass units, amu (1.66 x 10<sup>-24</sup> g)

1/12 the mass of carbon-12

Rule: Round atomic masses to the nearest tenth

Ex: Na = 23.0Ca = 40.1

One exception: Hydrogen 1.01

## Formula Mass/Molecular Mass

- Mass of a formula unit or molecule
- Add masses of each atom together

58.5 amu/ unit

Ex:  $Ca(NO_3)_2$  1 Ca 40.1 2 N 2(14.0) 6 O + 6(16.0)

164.1 amu/ unit

## **Percent Composition**

Percent by mass of each element in a compound

164.1