## 4.3 Chemical Reactions

Monday, March 6, 2017

## Law of Conservation of Mass

states "in a chemical reaction, the total mass of the reactionts is always equal to the total mass of the products"

Chemical reactions can be written as:

1. Word Equation - elements/compounds involved.

ex potassium + oxygen -> potassium , oxide

sign
mons
vocts
Left side of arrow
REACTANTS
Right side
Pronoces

PRODUCTS

2. Skeleton Equation - shows the elements/compounds in

symbolic form -shows states of matter (s), (1), (g)

- not balanced

 $K(s) + O_2(g) \longrightarrow K_2O(s)$ eX.

> # 7 special diamotic elements \* H2 O2 N2 Cl2 F2 Br2 I2

3. Balance Equation

- coefficient (# sits in front of elements)
- shows the same # of atoms of each
type on each side of the arrow.

e X. 本 .

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