

Name:

Date:

Period:

Chemical Formulas and Equations

Questions:

Chemical _____: An easy way for scientist to describe a molecule using the element _____.

_____ - number that follows a symbol; subscript tells how many _____ of element are in molecule:

CO₂

What elements are bonded to create this molecule?

How many atoms of each element are in this molecule?

A coefficient is:

Example:

A coefficient tells you:

Example:

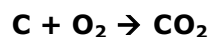
Chemical Reactions

- change that occurs when atoms rearrange themselves
- Can absorb or release energy
 - Heat
 - Light
 - Sound
- Chemical equations used to describe chemical reactions

Parts of a Chemical Equation

REACTANTS - Molecules that are _____ in the reaction. (label on the equation below)

PRODUCTS - Molecules that are _____ in the reaction. (label on the equation below)



The arrow is read as "_____"

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Law of Conservation of Mass

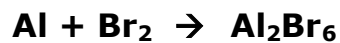
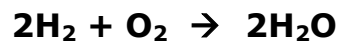
Matter can not be _____ or _____, although it may be rearranged.

Because of "conservation of mass", chemical equations must be _____

It must have the same _____ of each _____ on both _____ of equation

Balanced or Unbalanced?

A chemical equation must have the same _____ and _____ of atoms on either side of the _____ in order to be balanced



Summary: