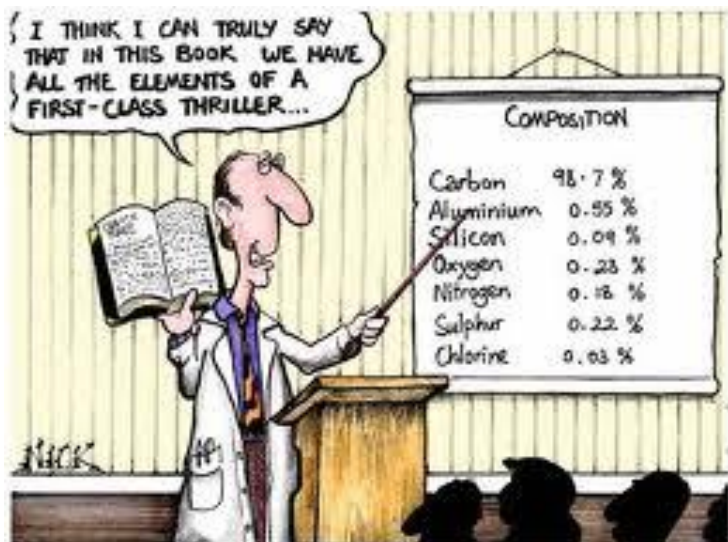


Stoichiometry



Name _____

Test Date _____

Vocabulary

Term	Definition
Stoichiometry	
Conversion factor	
Dimensional analysis	

Review Practice:

\$25 = _____ nickels

2.5 miles = _____ inches

180 days = _____ minutes

125 cm = _____ kilometers

15 m/s = _____ km/hr

What is **formula mass**?

Units: _____

Try it:

NaCl

$\text{NiSO}_3 \cdot 6\text{H}_2\text{O}$

$\text{Al}_2(\text{SO}_4)_3$

Percent Composition:

What is it?

Formula:

Try It:

NaCl

Na_____

Cl_____

Al₂(SO₄)₃

Al_____

S_____

O_____

NiSO₃ * 6H₂O

H₂O_____

Empirical and Molecular Formula

Empirical formula:

Molecular formula:

Empirical Formula Steps:

1)

2)

3)

4)

Try It:

Example 1:

Example 2:

Molecular Formulas

Equation:

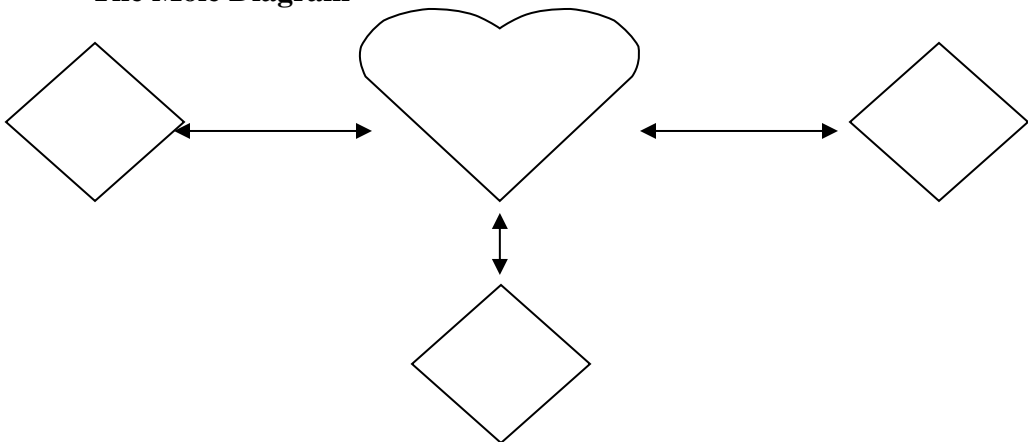
Try It:

Moles and Stoichiometry

Vocabulary

Term	Definition
Mole	
Avogadro's number	
Molar Mass	
Molar Volume	

The Mole Diagram



Try It:

a)

b)

c)

d)

e)

f)

g)

Stoichiometry

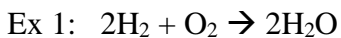
Important things that you need:

1)

2)

Mole ratio

Write all the mole ratios for:



Why do you use a mole ratio?

- 1)
- 2)
- 3)

Try It:

1) Step 1: Balanced Chemical Equation (mass/mass ex.)

a)

b)

2) Step 1: Balanced Chemical Equation (mass/mass ex.)

3) Step 1: Balanced Chemical Equation (mass/vol ex.)

a)

b)

4) Step 1: Balanced Chemical Equation (vol/vol ex.)

a)

b)

When do you use the mole ratio? _____

Write your own example problem where you would use a mole ratio

When do you use the mole diagram? _____

Write your own example problem where you would use a mole diagram

