Unit 6 Notes: Stoichiometry

Pronounced: Stoy-kee-AHM-uh-tree Name: Key

Stoichiometry: uses mole ratio from BCE to solve problems; branch of chemistry that studies the quantitative relationships in a balanced chemical equation

Stoichiometry is based on the law of conservation of mass. Which states...matter cannot be created or destroyed

How can we interpret coefficients in the following BCE?

4 Al + 3 O2 - 2 Al2O3

number of atoms/comounds 2. number of moles...Mole Ratios!

Mole Ratios: Shows the relationship between moles of reactants and products in a chemical reaction.

Write all possible mole ratios from this equation:

4 Al + 3 O₂ → 2 Al₂O₃

3 mol Oa

2 mol Al₂O₂

4 mol Al 3 mol O₂ 4 mol Al 3 mol O₃ 4 mol Al 2 mol Al₂O₃

2 mol Al₂O₃ 4 mol Al 2 mol Al₂O₃ 3 mol O₃

Mass-Mass Stoichiometry Example

How many grams of oxygen can be produced by decomposing 5.00 g of potassium chlorate?

1) Map it!!

2 KClO₃ → 3 O₂ + 2 KCl

____5.00g KClO₃ × __1 mol__ × 3 mol O₂ × __32.0 g_ = 1.96 g O₂ 122.6 g 2 mol KClO₃ 1 mol

Draw an arrow going down from 5g KClO₃ to below KClO₃, an arrow going to the right to O₂, arrow going up from below O₂ to the question mark above O₂

- 2) Get to moles!! (Use the periodic table)
- 3) Use the Mole ratio to get to the new substance.

 (This is stoichiometry, USE THE Balanced Chemical Equation!!)
- 4) Get back into grams. (Again with the periodic table)

Unit 10a Stoichiometry Notes

Ian Pickup



Reviewing Unit 10a Stoichiometry Notes: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Unit 10a Stoichiometry Notes**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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