

Study Packet: Stoichiometry

Stoy - kee - ahm - eh - tree

Set I. Conversion Factors

Consider the following reaction:



a) **2 mole $\text{H}_3\text{PO}_4 = 6 \text{ mole } \text{H}_2\text{O}$**

b) **3 moles $\text{Hg}(\text{OH})_2 = 1 \text{ mole } \text{Hg}_3(\text{PO}_4)_2$**

c) **3 moles $\text{Hg}(\text{OH})_2 = 2 \text{ moles } \text{H}_3\text{PO}_4$**

d) **1 mole $\text{Hg}_3(\text{PO}_4)_2 = 6 \text{ moles } \text{H}_2\text{O}$**

What is the mole to mole relationship for phosphoric acid to water?

What is the mole to mole relationship for $\text{Hg}(\text{OH})_2$ to $\text{Hg}_3(\text{PO}_4)_2$?

What is the mole to mole relationship for $\text{Hg}(\text{OH})_2$ to H_3PO_4 ?

What is the mole to mole relationship for $\text{Hg}_3(\text{PO}_4)_2$ to H_2O ?

Balance the following equations	Write out all of the possible mole ratios
2. <u>2</u> $\text{SO}_2 + \underline{\quad} \text{O}_2 \rightarrow \underline{2}$ SO_3	2. 2 mol $\text{SO}_2 = 1 \text{ mole } \text{O}_2$, 2 moles $\text{SO}_2 = 2 \text{ moles } \text{SO}_3$, 1 mole $\text{O}_2 = 2 \text{ mole } \text{SO}_3$
3. <u>1</u> $\text{PCl}_3 + \underline{\quad} \text{Cl}_2 \rightarrow \underline{1}$ PCl_5	3. Everything is 1:1
4. <u>4</u> $\text{NH}_3 + \underline{3}$ $\text{O}_2 \rightarrow \underline{2}$ $\text{N}_2 + \underline{6}$ H_2O	4. 4 mol $\text{NH}_3 = 3 \text{ mol } \text{O}_2$, 4 mol $\text{NH}_3 = 2 \text{ mol } \text{N}_2$, 4 mol $\text{NH}_3 = 6 \text{ mol } \text{H}_2\text{O}$, 3 mol $\text{O}_2 = 2 \text{ mol } \text{N}_2$, 3 mol $\text{O}_2 = 6 \text{ mol } \text{H}_2\text{O}$, 2 mol $\text{N}_2 = 6 \text{ mol } \text{H}_2\text{O}$
5. <u>1</u> $\text{Fe}_2\text{O}_3 + \underline{3}$ $\text{CO} \rightarrow \underline{2}$ $\text{Fe} + \underline{3}$ CO_2	5. 1 mol $\text{Fe}_2\text{O}_3 = 3 \text{ mol } \text{CO}$, 1 mol $\text{Fe}_2\text{O}_3 = 2 \text{ mol } \text{Fe}$, 1 mol $\text{Fe}_2\text{O}_3 = 3 \text{ mol } \text{CO}_2$, 3 mol $\text{CO} = 2 \text{ mol } \text{Fe}$, 3 mol $\text{CO} = 3 \text{ mol } \text{CO}_2$, 2 mol $\text{Fe} = 3 \text{ mol } \text{CO}_2$

Set II. Mole to mole and mole to mass

On a separate sheet of paper balance the equations for each problem and solve the questions. Don't forget to make sure the reaction is balanced!



1. "sulfur burns in oxygen gas to form sulfur dioxide"

a. **1.56 mol S**

How many moles of sulfur must be burned to give 100.0 g of SO_2 ?

b. **10 mol S**

How many moles of sulfur must be burned to completely react with 10 moles of oxygen?

c. **1.93×10^{25} mc O_2**

If there are 32 moles of oxygen, how many molecules of oxygen are there?



a. **2.56×10^7 mg $\text{Ba}(\text{NO}_3)_2$**

How many mg of $\text{Ba}(\text{NO}_3)_2$ can be formed from 196. moles of HNO_3 ?

b. **14.9 mol HNO_3**

If 7.45 moles of water are formed during this reaction, how many moles of HNO_3 were used?



a. **9.85 mol AgNO_3**

How many moles of AgNO_3 are needed to produce 9.85 mol of silver.

b. **15.5 mole Cu**

How many moles of copper produce 5.00 kg of silver?

Chapter 12 Stoichiometry Packet

Kevin M. Dunn



Chapter 12 Stoichiometry Packet:

Caveman Chemistry Kevin M. Dunn, 2003 Half a million years ago our ancestors learned to make fire from scratch They crafted intricate tools from stone and brewed mind altering elixirs from honey Their descendants transformed clay into pottery wool into clothing and ashes into cleansers In ceramic crucibles they won metal from rock the metals lead to colored glazes and glass Buildings of brick and mortar enshrined books of parchment and paper Kings and queens demanded ever more colorful clothing and accessories in order to out class clod hoppers and call girls Kingdoms rose and fell by the power of saltpeter sulfur and charcoal And the demands of everyday folk for glass and paper and soap stimulated the first round of chemical industrialization From sulfuric acid to sodium carbonate From aniline dyes to analgesic drugs From blasting powder to fertilizers and plastics In a phrase From Caveman to Chemist Your guides on this journey are the four alchemical elements Fire Earth Air and Water These archetypical characters deliver first hand accounts of the births of their respective technologies The spirit of Fire for example was born in the first creature to cultivate the flame This spirit passed from one person to another from one generation to another from one millennium to another arriving at last in the pages of this book The spirit of Earth taught folks to make tools of stone the spirit of Air imparted knowledge of units and the spirit of Water began with the invention of spirits Having traveled the world from age to age who can say where they will find their next home Perhaps they will find one in you

Chemistry James N. Spencer, George M. Bodner, Lyman H. Rickard, 2010-12-28 Chemistry Structure and Dynamics 5th Edition emphasises deep understanding rather than comprehensive coverage along with a focus on the development of inquiry and reasoning skills While most mainstream General Chemistry texts offer a breadth of content coverage the Spencer author team in contrast focuses on depth and student preparation for future studies The fifth edition is revised in keeping with our commitment to the chemical education community and specifically the POGIL Process Oriented Guided Inquiry Learning Project This text reflects two core principles first that the concepts that are covered are fundamental building blocks for understanding chemistry and second that the concepts should be perceived by the students as being directly applicable to their interests and careers The authors further provide this core coverage using 1 of 3 models data driven chemical theories and student understanding which allows for a more concrete foundation on which students build conceptual understanding

Forensics in Chemistry Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K s body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a

highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI

Chemistry John Olmsted, Gregory M. Williams, 1997 Textbook outlining concepts of molecular science

Resources in Education ,1980 Basic Chemistry William S. Seese, Guido H. Daub, 1981

Equilibrium Thermodynamics for Engineers and Scientists Richard Wilson Haywood, 1980 *Scientific and Technical Aerospace Reports* ,1983 *Chemtrek* Stephen Thompson, 1990 **INIS Atomindex** ,1979 *Electrical & Electronics Abstracts* ,1989 *Physics Briefs* ,1990

The Top Books of the Year Chapter 12 Stoichiometry Packet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 12 Stoichiometry Packet : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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