

$$\text{percent yield} = \frac{\text{actual yield (g)}}{\text{theoretical yield (g)}} \times 100\%$$

↳ from B-E-A chart

Stoichiometry Worksheet 2: Percent Yield

For each of the problems below:

- Write the balanced chemical equation.
- Identify the given (with units) and what you want to find (with units).
- Show set up with units. Give final answer with units and label.

1. Using the Hoffman apparatus for electrolysis, a chemist decomposes 36 g of water into its gaseous elements. How many grams of hydrogen gas should she get (theoretical yield)?



1 mol H_2O : 18.02 g/mol

36 g $\frac{1\text{ mol H}_2\text{O}}{18.02\text{ g}} = 1.99\text{ mol H}_2\text{O}$

1 mol H_2 : 2.02 g

2 mol $\text{H}_2 = \boxed{4.04\text{ g H}_2}$

2. Recall that liquid sodium reacts with chlorine gas to produce sodium chloride. You want to produce 581 g of sodium chloride. How many grams of sodium are needed?



1 mol $\text{NaCl} = 58.44\text{ g}$
 $581\text{ g NaCl} \times \frac{1\text{ mol NaCl}}{58.44\text{ g}} = 9.94\text{ mol NaCl}$

1 mol $\text{Na} = 22.99\text{ g}$

$9.94\text{ mol Na} \times 22.99\text{ g} = \boxed{228.52\text{ g Na}}$

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IM Harris



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The Top Books of the Year Modeling Chemistry U8 Ws V2 0 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Modeling Chemistry U8 Ws V2 0 : Taylor Jenkins Reid's "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. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Modeling Chemistry U8 Ws V2 0 : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Modeling Chemistry U8 Ws V2 0

1. Understanding the eBook Modeling Chemistry U8 Ws V2 0
 - The Rise of Digital Reading Modeling Chemistry U8 Ws V2 0
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Chemistry U8 Ws V2 0
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modeling Chemistry U8 Ws V2 0
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Chemistry U8 Ws V2 0
 - Personalized Recommendations
 - Modeling Chemistry U8 Ws V2 0 User Reviews and Ratings
 - Modeling Chemistry U8 Ws V2 0 and Bestseller Lists
5. Accessing Modeling Chemistry U8 Ws V2 0 Free and Paid eBooks
 - Modeling Chemistry U8 Ws V2 0 Public Domain eBooks
 - Modeling Chemistry U8 Ws V2 0 eBook Subscription Services
 - Modeling Chemistry U8 Ws V2 0 Budget-Friendly Options
6. Navigating Modeling Chemistry U8 Ws V2 0 eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling Chemistry U8 Ws V2 0 Compatibility with Devices
 - Modeling Chemistry U8 Ws V2 0 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling Chemistry U8 Ws V2 0
 - Highlighting and Note-Taking Modeling Chemistry U8 Ws V2 0
 - Interactive Elements Modeling Chemistry U8 Ws V2 0
8. Staying Engaged with Modeling Chemistry U8 Ws V2 0

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Modeling Chemistry U8 Ws V2 0
- 9. Balancing eBooks and Physical Books Modeling Chemistry U8 Ws V2 0
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling Chemistry U8 Ws V2 0
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling Chemistry U8 Ws V2 0
 - Setting Reading Goals Modeling Chemistry U8 Ws V2 0
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling Chemistry U8 Ws V2 0
 - Fact-Checking eBook Content of Modeling Chemistry U8 Ws V2 0
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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