

## Answers to Chapter 3 Study Questions

1. a)  $3(12.0) + 8(1.01) + 3(16.0) = 92.1 \text{ g/mole}$       b)  $92.1 \text{ g}$       c)  $6.02 \times 10^{23}$  molecules  
 d)  $0.217 \text{ moles} \times \frac{92.1 \text{ g}}{1 \text{ mole}} = 20.0 \text{ g}$
2. a) 4 atoms (one N + 3 H)  
 b)  $1 \text{ mole } \text{NH}_3 \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole } \text{NH}_3} \times \frac{4 \text{ atoms}}{1 \text{ molecule}} = 2.41 \times 10^{24} \text{ atoms}$   
 c)  $3.40 \text{ g } \text{NH}_3 \times \frac{1 \text{ mole } \text{NH}_3}{17.0 \text{ g } \text{NH}_3} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole } \text{NH}_3} \times \frac{4 \text{ atoms}}{1 \text{ molecule}} = 4.82 \times 10^{23} \text{ atoms}$
3. Molar mass of  $\text{NaNO}_2 = 23.0 + 14.0 + 2(16.0) = 69.0 \text{ g/mole}$   
 $\% \text{ Na} = 23.0/69.0 = 33.3\% \text{ Na}$ ;  $\% \text{ N} = 14.0/69.0 = 20.3\% \text{ N}$ ;  $\% \text{ O} = 2(16.0)/69.0 = 46.4\% \text{ O}$   
**33.3% Na, 20.3% N and 46.4% O.**
4. a) In 100 g of this compound, there are 40.7 g C, 5.1 g H, and 54.2 g O  
 $40.7 \text{ g C} \times \frac{1 \text{ mole C}}{12.0 \text{ g C}} = 3.39 \text{ moles C}$        $3.39/3.39 = 1 \times 2 = 2$   
 $5.1 \text{ g H} \times \frac{1 \text{ mole H}}{1.0 \text{ g H}} = 5.1 \text{ moles H}$        $5.1/3.39 = 1.5 \times 2 = 3$   
 $54.2 \text{ g O} \times \frac{1 \text{ mole O}}{16.0 \text{ g O}} = 3.39 \text{ moles O}$        $3.39/3.39 = 1 \times 2 = 2$   
 empirical formula =  **$\text{C}_2\text{H}_3\text{O}_2$**
- b) Molar mass of  $\text{C}_2\text{H}_3\text{O}_2 = 2(12.0) + 3(1.0) + 2(16.0) = 59.0 \text{ g/mole}$   
 $118/59.0 = 2 \rightarrow$  molecular formula =  **$\text{C}_4\text{H}_6\text{O}_4$**
5. a) In 25.0 g of compound, there are 7.20 g Mg, 3.55 g C and  $25.0 - (7.20 + 3.55) = 14.25 \text{ g O}$ .  
 $7.20 \text{ g Mg} \times \frac{1 \text{ mole Mg}}{24.3 \text{ g Mg}} = 0.296 \text{ moles Mg}$        $0.296/0.296 = 1$   
 $3.55 \text{ g C} \times \frac{1 \text{ mole C}}{12.0 \text{ g C}} = 0.296 \text{ moles C}$        $0.296/0.296 = 1$   
 $14.25 \text{ g O} \times \frac{1 \text{ mole O}}{16.0 \text{ g O}} = 0.891 \text{ moles O}$        $0.891/0.296 = 3$   
 formula =  **$\text{MgCO}_3$**
- b)  $\% \text{ Mg} = 7.20/25.0 = 28.8\% \text{ Mg}$ ;  $\% \text{ C} = 3.55/25.0 = 14.2\% \text{ C}$ ;  $\% \text{ O} = 14.25/25.0 = 57.0\% \text{ O}$ . (You should get the same result using molar mass and atomic masses.)
- c)  $13.9 \text{ g compound} \times \frac{28.8 \text{ g Mg}}{100 \text{ g compound}} = 4.00 \text{ g Mg}$

# Chemistry Chapter 3 Worksheet Answers

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## **Chemistry Chapter 3 Worksheet Answers:**

*Fundamentals of Analytical Chemistry* Douglas A. Skoog, 2004 This text is known for its readability combined with a systematic rigorous approach Extensive coverage of the principles and practices of quantitative chemistry ensures suitability for chemistry majors

**Process Safety for Engineers** CCPS (Center for Chemical Process Safety), 2022-04-12 Process Safety for Engineers Familiarizes an engineer new to process safety with the concept of process safety management In this significantly revised second edition of Process Safety for Engineers An Introduction CCPS delivers a comprehensive book showing how Process Safety concepts are used to reduce operational risks Students new engineers and others new to process safety will benefit from this book In this updated edition each chapter begins with a detailed incident case study provides steps that help address issues and contains problem sets which can be assigned to students The second edition covers Process Safety including an overview of CCPS Risk Based Process Safety Hazards specifically fire and explosion reactive chemical and toxicity Design considerations for hazard control including Hazard Identification and Risk Analysis Management of operational risk including management of change In addition the book presents how Process Safety performance is monitored and sustained The associated online resources are linked to the latest online CCPS resources and lectures

**Journal of Biological Education**, 1989

**Developing Language and Literacy in English across the Secondary School Curriculum** Urszula Clark, 2018-07-21 This book draws on original research and a language based pedagogy approach to examine how secondary schools in the UK can devise and implement coherent language and literacy across curriculum policies and strategies so that grammar and associated metalanguage becomes an integral part of their day to day curriculum practices The research was undertaken in three 11 to 18 secondary schools in England where the majority of students are categorised as having English as a second language EAL and where a significant minority are also socially disadvantaged in two of the three The author argues that paying explicit attention to the linguistic structures through which subject knowledge is realised can be of benefit to all pupils in ways that are also socially just and democratic This book provides an important bridge between academic theory and educational practice that will appeal to applied linguists and sociolinguists as well as to teachers teacher trainers and practitioners

*Linne & Ringsrud's Clinical Laboratory Science - E-Book* Mary Louise Turgeon, 2015-02-10 Using a discipline by discipline approach Linne perforated pages make it easy for students to remove for use in the lab and for assignment of review questions as homework NEW Instrumentation updates show new technology being used in the lab NEW Additional key terms in each chapter cover need to know terminology NEW Additional tables and figures in each chapter clarify clinical lab science concepts

**Chapter Resource 2 Chemistry of Life Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

**Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12

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collaborative improvement of teaching and learning Includes US and international case studies powerful metaphors application exercises a leader s guide a companion website digital templates and more Learn what lesson study and collaborative inquiry can and should look like Find the guidance you need to lead and support schoolwide inquiry based improvement A true inspiration for educators who want to improve both their own craft and the methods of the profession

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**The Must-Read : Colleen Hoover "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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

**Chemistry Chapter 3 Worksheet Answers : 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' absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Discover the Magic : 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 crafts a tale of resilience, survival, and the transformative power of nature, captivating 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 captivating stories waiting to be discovered.

The novel begins with Richard Papan, 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 an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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