

### balance nuclear reaction equations

aluminum-26 undergoes positron emission  
 potassium-40 undergoes beta decay (electron)  
 uranium-238 undergoes alpha decay



### electron configurations

Write the electron configuration for C.  
 Write the electron configuration for Cr.  
 Write the shorthand notation for Bi.



### NOMENCLATURE (naming compounds, writing formulas)

Write the formula for each of the following compounds:

- a. Sulfur hexafluoride  $\text{SF}_6$
- b. Lithium nitride  $\text{Li}_3\text{N}$
- c. Chromium (III) carbonate  $\text{Cr}_2(\text{CO}_3)_3$
- d. Tin (II) chloride  $\text{SnCl}_2$
- e. Ammonium acetate  $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$  (or  $\text{CH}_3\text{COONH}_4$ )
- f. Mercury (I) chloride  $\text{Hg}_2\text{Cl}_2$
- g. Potassium bromate  $\text{KBrO}_3$
- h. Hydrosulfuric acid  $\text{H}_2\text{S(aq)}$
- i. Chloric acid  $\text{HClO}_3$
- j. Sulfurous acid  $\text{H}_2\text{SO}_3$

Name each of the following compounds:

- a.  $\text{CuSO}_4$  Copper (II) sulfate
- b.  $\text{AlF}_3$  aluminum fluoride
- c.  $\text{HI}$  hydrogen iodide
- d.  $\text{NO}$  nitrogen monoxide
- e.  $\text{H}_2\text{Se(aq)}$  hydroselenic acid
- f.  $\text{HNO}_3$  nitric acid
- g.  $\text{HNO}_2$  nitrous acid
- h.  $\text{NaHSO}_4$  sodium hydrogen sulfate

### Half-life

Tritium ( $\text{H-3}$ ) is a radioactive isotope of hydrogen with a half-life of 12.3 years. How long would it take for a 40.0 g sample to decay down to 1.25 g?



Fe-61 has a half-life of 6.00 min. Of a 100.0 mg sample, how much will remain after 18.0 min?



### Average atomic mass

The element copper has naturally occurring isotopes with mass numbers of 63 and 65.

The relative abundance and atomic masses are 69.2% for a mass of 63amu and 30.8% for a mass of 65amu. Calculate the average atomic mass of copper.



# Modern Chemistry Chapter 1 Review Answers

**SJ Ball**



**Modern Chemistry Chapter 1 Review Answers:**

## **Modern Chemistry Chapter 1 Review Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Modern Chemistry Chapter 1 Review Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Modern Chemistry Chapter 1 Review Answers**

1. Understanding the eBook Modern Chemistry Chapter 1 Review Answers
  - The Rise of Digital Reading Modern Chemistry Chapter 1 Review Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Modern Chemistry Chapter 1 Review Answers
  - 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 Modern Chemistry Chapter 1 Review Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Chemistry Chapter 1 Review Answers
  - Personalized Recommendations
  - Modern Chemistry Chapter 1 Review Answers User Reviews and Ratings

- Modern Chemistry Chapter 1 Review Answers and Bestseller Lists
- 5. Accessing Modern Chemistry Chapter 1 Review Answers Free and Paid eBooks
  - Modern Chemistry Chapter 1 Review Answers Public Domain eBooks
  - Modern Chemistry Chapter 1 Review Answers eBook Subscription Services
  - Modern Chemistry Chapter 1 Review Answers Budget-Friendly Options
- 6. Navigating Modern Chemistry Chapter 1 Review Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Modern Chemistry Chapter 1 Review Answers Compatibility with Devices
  - Modern Chemistry Chapter 1 Review Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modern Chemistry Chapter 1 Review Answers
  - Highlighting and Note-Taking Modern Chemistry Chapter 1 Review Answers
  - Interactive Elements Modern Chemistry Chapter 1 Review Answers
- 8. Staying Engaged with Modern Chemistry Chapter 1 Review Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Modern Chemistry Chapter 1 Review Answers
- 9. Balancing eBooks and Physical Books Modern Chemistry Chapter 1 Review Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Modern Chemistry Chapter 1 Review Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Modern Chemistry Chapter 1 Review Answers
  - Setting Reading Goals Modern Chemistry Chapter 1 Review Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modern Chemistry Chapter 1 Review Answers
  - Fact-Checking eBook Content of Modern Chemistry Chapter 1 Review Answers
  - 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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