

## Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H<sub>2</sub>O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
	<hr/> 58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
	<hr/> 84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
	<hr/> 159.6

# Modeling Chemistry Unit 5 Key

**Léo Pomar**



## **Modeling Chemistry Unit 5 Key:**

## **Modeling Chemistry Unit 5 Key** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Modeling Chemistry Unit 5 Key**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Modeling Chemistry Unit 5 Key**

1. Understanding the eBook Modeling Chemistry Unit 5 Key
  - The Rise of Digital Reading Modeling Chemistry Unit 5 Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Chemistry Unit 5 Key
  - 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 Unit 5 Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Chemistry Unit 5 Key
  - Personalized Recommendations
  - Modeling Chemistry Unit 5 Key User Reviews and Ratings

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