

Unit 1: Matter and Energy

Unit Review

Name: **KEY**

Date: _____ Class: _____

Directions: Complete the following review questions. Review your Cornell notes, learning targets, worksheets, labs, and other assignments to adequately prepare for the unit test.

Learning Target(s): 1, 2, 3, 4, 10

1. In the Melting of a Solid lab, you heated (or cooled) an unknown solid and recorded its temperature at 30-second intervals. From this data you created a heating (or cooling) curve to identify the substance.
 - a. Identify the independent variable of this experiment: **the time you heat the solid for**
 - b. Identify the dependent variable of this experiment: **the temperature of the solid**
 - c. Identify the control for this experiment: **substance used; method of heating**
2. Decide whether the following observations are qualitative or quantitative:
 - a. The solution began to get cloudy once the second reagent was added. **Qualitative**
 - b. The piece of magnesium was 1.25 centimeters in length. **Quantitative**
 - c. The mass of the block decreased by fifteen grams. **Quantitative**
 - d. The test tube appeared to have a dark orange solid suspended in the solution. **Qualitative**
 - e. The residue left in test tube 5 was slightly larger than in test tube 4. **Qualitative**

Learning Target(s): 1-15

3. Suggest a process to use to separate each of the following mixtures:
 - a. A mix of salt and water: _____
 - b. A smoothie drink with veggies and fruits of different densities: _____
4. Which physical property does filtration use to separate a mixture? _____

Learning Target(s): 5, 6

5. Describe at least two safety precautions to use when using a Bunsen Burner in lab:
 - a. **Tie back hair and loose clothing**
 - b. **Light match first then turn on gas valve**
6. Which type of lab equipment would be most appropriate to measure 4 mL of water in? Choose one and explain why.

a. A 250 mL beaker b. A 10 mL graduated cylinder c. An electronic balance	d. A 50 mL graduated cylinder e. A large test tube f. A thermometer
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You would get the most accurate measurement with this size. This piece of equipment has graduations to measure volume.

Physical Science Chemistry Unit Review Guide Answers

Yicheng Fang



Physical Science Chemistry Unit Review Guide Answers:

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Table of Contents Physical Science Chemistry Unit Review Guide Answers

1. Understanding the eBook Physical Science Chemistry Unit Review Guide Answers
 - The Rise of Digital Reading Physical Science Chemistry Unit Review Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chemistry Unit Review Guide 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 Physical Science Chemistry Unit Review Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chemistry Unit Review Guide Answers

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

- Fact-Checking eBook Content of Physical Science Chemistry Unit Review Guide 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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