

## Unit 0 Study Guide

### The Step of the Scientific Method

- Be able to name and identify the steps of the scientific method in a given scenario.

### Determining Variables

- Be able to identify the independent, dependent and control variables in an experiment.

### Accuracy and Precision

- Given a data table, be able to identify which trials are accurate, precise, both or neither.

### Metric Conversions

- |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|
| 1. 4m = <u>4000</u> mm   | 4. 97dm = <u>9700</u> mm | 7. 4.3km = <u>4300</u> m |
| 2. 49cm = <u>0.49</u> m  | 5. 25L = <u>25000</u> mL | 8. 5mm = <u>0.5</u> cm   |
| 3. 16kg = <u>16000</u> g | 6. 437dg = <u>43.7</u> g | 9. 1.6L = <u>1600</u> mL |

Dimensional Analysis: Complete the following conversions using the steps of dimensional analysis

1. 0.85 qt = 801.89 mL

$$\frac{0.85 \text{ qt}}{1} \left| \frac{1 \text{ L}}{1.05667 \text{ qt}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = \frac{850}{1.05667} = \boxed{801.89 \text{ mL}}$$

3. 1.2 kg = \_\_\_\_\_ oz

$$\frac{1.2 \text{ kg}}{1} \left| \frac{2.2 \text{ lb}}{1 \text{ kg}} \right| \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = \boxed{42.24 \text{ oz}}$$

2. 61 cm = \_\_\_\_\_ ft

$$\frac{61 \text{ cm}}{1} \left| \frac{1 \text{ in}}{2.54 \text{ cm}} \right| \left| \frac{1 \text{ ft}}{12 \text{ in}} \right| = \frac{61}{30.48} = \boxed{2 \text{ ft}}$$

4. 2 L = \_\_\_\_\_ pt

$$\frac{2 \text{ L}}{1} \left| \frac{1.06 \text{ qt}}{1 \text{ L}} \right| \left| \frac{2 \text{ pt}}{1 \text{ qt}} \right| = \boxed{4.24 \text{ pt}}$$

5. The distance from a Port Huron to the Indiana State line is approximately 271 miles (via I-94). Express this distance in kilometers.

$$\frac{271 \text{ mi}}{1} \left| \frac{1.61 \text{ km}}{1 \text{ mi}} \right| = 436.31 \text{ km}$$

6. A baby born in the US weighs 3.295 kg according to the scale in the birthing room. Convert this to pounds and ounces so you can tell the grandparents how much the baby weighed.

$$\frac{3.295 \text{ kg}}{1} \left| \frac{2.2 \text{ lb}}{1 \text{ kg}} \right| = 7.25 \text{ lb} \quad \frac{0.25 \text{ lb}}{1} \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = 4 \text{ oz} \quad \boxed{7 \text{ lb. } 4 \text{ oz.}}$$

7. A child requires a 5 ml dose of medicine each day. How many days would a gallon of this medicine last?

$$\frac{1 \text{ gal}}{1} \left| \frac{3.78 \text{ L}}{1 \text{ gal}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = 3780 \text{ mL} \quad \frac{3780 \text{ mL}}{5 \text{ mL/day}} = 756 \text{ days}$$

### Scientific Notation

Convert the following numbers to "Standard Notation" (ie,  $10^3 = 1000$ ):

1.  $2 \times 10^3 = 2000$

2.  $2.331 \times 10^5 = 233,100$

3.  $9.51 \times 10^{12} = 9,510,000,000,000.00$

# Physical Science Answers 21 1

**Marcel A. Müller**



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## **Table of Contents Physical Science Answers 21 1**

1. Understanding the eBook Physical Science Answers 21 1
  - The Rise of Digital Reading Physical Science Answers 21 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Answers 21 1
  - 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 Answers 21 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Answers 21 1
  - Personalized Recommendations
  - Physical Science Answers 21 1 User Reviews and Ratings
  - Physical Science Answers 21 1 and Bestseller Lists
5. Accessing Physical Science Answers 21 1 Free and Paid eBooks

- Physical Science Answers 21 1 Public Domain eBooks
- Physical Science Answers 21 1 eBook Subscription Services
- Physical Science Answers 21 1 Budget-Friendly Options
- 6. Navigating Physical Science Answers 21 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Answers 21 1 Compatibility with Devices
  - Physical Science Answers 21 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Answers 21 1
  - Highlighting and Note-Taking Physical Science Answers 21 1
  - Interactive Elements Physical Science Answers 21 1
- 8. Staying Engaged with Physical Science Answers 21 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Answers 21 1
- 9. Balancing eBooks and Physical Books Physical Science Answers 21 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Answers 21 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Answers 21 1
  - Setting Reading Goals Physical Science Answers 21 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Answers 21 1
  - Fact-Checking eBook Content of Physical Science Answers 21 1
  - 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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