

## 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

**N Noddings**



## Physical Science Answers 21 1:

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to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core Science & Engineering Indicators ,1987 *Chemical News and Journal of Physical Science* ,1909 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1958 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December

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