

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 = 4000 mm 4. 97dm = 9700 mm 7. 4,3km = 4300 m
2. 49cm = 0.49 m 5. 25L = 25000 mL 8. 5mm = 0.5 cm
3. 16kg = 16000 g 6. 437dg = 43.7 g 9. 1.6L = 1600 mL

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

1. 0.85 qt = 80.9 mL

$$\frac{0.85 \text{ qt}}{1} \left| \frac{1 \text{ L}}{1.056 \text{ qt}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = \frac{850}{1.056} = \boxed{801.89 \text{ mL}}$$

3. 1.2 kg = _____ oz

$$\frac{3.1.2 \text{ kg} = \frac{1.2 \text{ kg}}{1} \times \frac{2.2 \text{ lb}}{1 \text{ kg}} \times \frac{16 \text{ oz}}{1 \text{ lb}} = 42.24 \text{ oz}}$$

- 2.
- $61\text{ cm} =$
- _____ 分

$$\frac{60 \text{ cm}}{1} \cdot \frac{1 \text{ in}}{2.54 \text{ cm}} \cdot \frac{1 \text{ ft}}{12 \text{ in}} = \frac{60}{30.48} = 2 \text{ ft}$$

- 4.2 L = _____ p4

$$\frac{2\Delta}{1} \left| \frac{1.06\text{qt}}{1\cancel{x}} \right| \frac{2\text{pt.}}{1\text{qt.}} = \underline{4.24\text{pt.}}$$

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

$$\frac{2712\%}{1} \bigg| \frac{1.61 \text{ km}}{1\%} = 436.31 \text{ km}$$

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.

ounces so you can tell the grandparents how much the baby weighed.

$$\begin{array}{r} 3.295 \text{ kg} \\ 1 \end{array} \bigg| \begin{array}{r} 2.2 \text{ lb} \\ 1 \text{ kg} \end{array} = 7.25 \text{ lb} \quad \begin{array}{r} .25 \text{ lb} \\ 1 \end{array} \bigg| \begin{array}{r} 16 \text{ oz} \\ 1 \text{ lb} \end{array} = 4 \text{ oz.} \quad \boxed{7 \text{ lb. } 4 \text{ oz.}}$$

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

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

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. $9.51 \times 10^{22} = \frac{95100000000000000000000}{1000000000000000000000000}$

Physical Science Answers 21 1

G Orfield



Physical Science Answers 21 1:

Basic Physical Science Eric Rice,1983 **Cambridge IGCSE® Physical Science Physics Workbook** David Sang,2017-02-16 Cambridge IGCSE Physical Science resources tailored to the 0652 syllabus for first examination in 2019 and all components of the series are endorsed by Cambridge International Examinations This Physics Workbook is tailored to the Cambridge IGCSE Physical Science 0652 syllabus for first examination in 2019 and is endorsed for learner support by Cambridge International Examinations The workbook covers both the Core and the Supplement material with exercises that are designed to develop students skills in problem solving and data handling planning investigations and application of theory to practice Answers are provided at the back of the book **Glencoe Physical Science** ,1999 **Physical Science, Grades 4 - 6** Armstrong,2009-02-16 Connect students in grades 4 6 with science using Physical Science Daily Skill Builders This 96 page book features two short reproducible activities per page and includes enough lessons for an entire school year It covers topics such as simple machines and alternative energy sources understanding the behavior and uses of electricity and framing scientific questions and recognizing scientific evidence Activities allow for differentiated instruction and can be used as warm ups homework assignments and extra practice The book supports National Geography Standards

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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 *Physical Science* C. Lon Enloe,Elizabeth Garnett,Jonathan Miles,Stephen Swanson,2000-12-25 This is an introductory book that provides students with the tools to master the basic principles of physics and chemistry needed by the aspiring technology professional Like all the books in the critically acclaimed Preserving the Legacy series each chapter is divided into subsections featuring learning objectives and a Check Your Understanding section to help students focus on important concepts Questions requiring written and mathematical answers at the end of each chapter provide students with the opportunity to further demonstrate their understanding of the concepts The only book available that specifically addresses the emerging need for a course to teach physics and chemistry principles to the growing number of students entering the various fields of technology it offers a thorough grounding in foundational concepts along with Technology boxes that offer practical applications Physical Science What the Technology Professional Needs to Know features Crucial topics such as measuring systems matter energy motion electricity and magnetism electromagnetic radiation nuclear radiation and reactions and chemical reactions and solutions Integrated coverage linking specific concepts to everyday applications An extensive glossary offering quick access to essential terminology An accompanying laboratory manual with additional exercises to enhance learning With its comprehensive coverage and quick reference format Physical Science What the Technology Professional Needs to Know is also a handy resource for any technology professional needing a quick refresher or useful working reference **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 Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1865 *English Mechanic and World of Science* ,1885 *Oswaal CBSE LMP Last Minute Preparation System Class 12 Science Stream (Physics, Chemistry, Mathematics, Biology & English Core) With board Additional Practice questions For 2024 Board Exams #WinTheBoards* Oswaal Editorial Board,2023-11-27 Description of the product Revision Notes to fill learning gaps Mind Maps Mnemonics for crisp recall Concept Videos for Visual Learnings Board Additional

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