

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

$$\frac{1.2 \text{ kg}}{1} \left| \frac{2.2046 \text{ lb}}{1 \text{ kg}} \right| \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = \boxed{42.24 \text{ oz}}$$

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

$$\frac{2 \text{ L}}{1} \left| \frac{1.05667 \text{ qt}}{1 \text{ L}} \right| \left| \frac{2 \text{ pt}}{1 \text{ qt}} \right| = \boxed{4.24 \text{ pt}}$$

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

$$\frac{271 \text{ mi}}{1} \left| \frac{1.60934 \text{ km}}{1 \text{ mi}} \right| = 436.31 \text{ km}$$

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.

$$\frac{3.295 \text{ kg}}{1} \left| \frac{2.2046 \text{ lb}}{1 \text{ kg}} \right| = 7.2516 \text{ lb} \quad \frac{0.2516 \text{ lb}}{1} \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = 4.026 \text{ oz} \quad \boxed{7 \text{ lb } 4.026 \text{ oz}}$$

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

$$\frac{1 \text{ gal}}{1} \left| \frac{3.785 \text{ L}}{1 \text{ gal}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = 3785 \text{ mL} \quad \frac{3785 \text{ mL}}{5 \text{ mL/day}} = 757 \text{ days}$$

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

Physical Science Answers 21 1

Eric Rice



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 *The Chemical News and Journal of Physical Science* ,1906 Power Practice: Physical Science, eBook Beth Barber,2004-09-01 This book supplements and enriches classroom teaching to enhance students understanding of vocabulary functions and fundamental processes of physical sciences work Topics include force and motion chemistry atoms and elements scientific process simple machines energy light and sound magnetism and electricity **Strengthening Physical Science Skills for Middle & Upper Grades, Grades 6 - 12** Shireman,2009-02-16 Develop interest and confidence in advanced science by building science vocabulary and math skills while exploring physical science concepts In Strengthening Physical Science Skills topics include matter gravity density motion simple machines electricity light and more It also includes a CD ROM with interactive exercises that are automatically scored and printed plus printable worksheets and reading activities It also supports NSE standards Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources X-kit Fet G11 Phys Science Physics Long, C,2009 **TGT Science Exam PDF-Physics-Chemistry-Biology Practice Sets With Answers eBook** Chandresh Agrawal,Nandini Books,2024-08-28 SGN The TGT Science Exam PDF Physics Chemistry Biology Practice Sets With Answers eBook Covers Objective Questions With Answers **Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science** Aron Thompson,1999 The Burning Answer Keith Barnham,2014-05-15

Our civilisation stands on the brink of catastrophe Our thirst for energy has led to threats from global warming nuclear disaster and conflict in oil rich countries We are running out of options Solar power Keith Barnham argues is the answer In this eye opening book he shows how a solar revolution is developing based on one of Einstein's lesser known discoveries one that gave us laptop computers and mobile phones An accessible guide to renewable technology and a hard hitting critique of the arguments of solar sceptics The Burning Answer outlines a future in which the fuel for electric cars will be generated on our rooftops It is above all an impassioned call to arms to join the solar revolution before it's too late **Climate Change**

2021 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC),2023-07-26 The Working Group I contribution 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 Catalog of

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,1909 **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 Physical Science C. Lon Enloe,Elizabeth

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