

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.

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LP Steffe



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Chemistry Guide and Laboratory Exercises Martin Van Buren McGill, G. M. Bradbury, 1935 **Chemistry Workbook and Laboratory Guide** Martin Van Buren McGill, 1933 **Resources in Education**, 2000 **Research in Education**, 1974 **The Publishers' Trade List Annual**, 1884 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and

multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1968 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **Holt Chemistry** Ralph Thomas Myers,2004 Handbook of Research on Learning and Instruction Richard E. Mayer,Patricia A. Alexander,2016-10-04 During the past 30 years researchers have made exciting progress in the science of learning i e how people learn and the science of instruction i e how to help people learn This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances With chapters written by leading researchers from around the world this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms and with a variety of learners including K 16 students and adult learners Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction The Handbook is written at a level that is appropriate for graduate students researchers and practitioners interested in an evidence based approach to learning and instruction The book is divided into two sections learning and instruction The learning section consists of chapters on how people learn in reading writing mathematics science history second language and physical education as well as how people acquire the knowledge and processes required for critical thinking studying self regulation and motivation The instruction section consists of chapters on effective instructional methods feedback examples questioning tutoring visualizations simulations inquiry discussion collaboration peer modeling and adaptive instruction Each chapter in this second edition of the Handbook has been thoroughly revised to integrate recent advances in the field of educational psychology Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction As with the first edition this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains learning constructs and instructional methods

Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1865 **The Chemical News and Journal of Physical Science** ,1865 The Literary Guide and Rationalist Review ,1925 **Basic Concepts of Chemistry, Study Guide** Leo J. Malone,2000 The text s three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the

math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems *El-Hi Textbooks in Print* ,1982 *El-Hi Textbooks & Serials in Print, 2003* ,2003

Basic Physical Science Helen Dolman MacCracken,1964 **ERIC Educational Documents Index, 1966-69: Major descriptors** ,1970 **ERIC Educational Documents Index, 1966-1969: Minor descriptors. Author index** CCM Information Corporation,1970 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03

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