

## Physical Science Comprehensive Final Exam Study Guide

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

1. The process of learning more about the natural world is \_\_\_\_.  
a. an experiment      c. a hypothesis  
b. a control      d. science
2. Experiments and investigations must be \_\_\_\_.  
a. approved      c. repeatable  
b. unrepeatable      d. accepted
3. A prediction about a problem that can be tested is a(n) \_\_\_\_.  
a. hypothesis      c. dependent variable  
b. independent variable      d. control
4. A variable in an experiment that stays the same is a(n) \_\_\_\_.  
a. independent variable      c. constant  
b. dependent variable      d. control
5. Science cannot answer questions about \_\_\_\_.  
a. distance      c. politics  
b. temperature      d. the natural world
6. Models can be used to describe which of the following environments?  
a. the floor of the ocean      c. space  
b. volcanoes      d. all of the above
7. Scientific \_\_\_\_ must be supported by observations and results from many investigations and are not absolute.  
a. constants      c. systems  
b. theories      d. laws
8. Another term for technology is \_\_\_\_.  
a. applied science      c. comparison  
b. controlled experiment      d. sequence
9. When designing an experiment, the first step is to \_\_\_\_.  
a. draw conclusions      c. recognize a problem  
b. form a hypothesis      d. test a hypothesis
10. When conducting an experiment, the last step is to \_\_\_\_.  
a. analyze the data      c. form a hypothesis  
b. draw conclusions      d. recognize a problem
11. To evaluate the observations you make, you must use \_\_\_\_.  
a. a hypothesis      c. measurements  
b. critical thinking      d. models
12. Scientists must be impartial and not base their conclusions on \_\_\_\_.  
a. opinions      c. models  
b. evidence      d. experiments
13. To \_\_\_\_ means to draw a conclusion based on something you observe.  
a. guess      c. model  
b. control      d. infer
14. In which of the following situations would it NOT be wise to estimate?  
a. the number of miles per gallon an automobile can provide  
b. the time it would take to walk to the grocery store from home

# Exploring Physical Science Study Guide Answers

**Paul G. Hewitt**

## **Exploring Physical Science Study Guide Answers:**

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 **U.S. Naval Training Bulletin** ,1948 **Naval Training Bulletin** ,1946 Guide for Occupational Exploration J. Michael Farr, LaVerne Ludden, Laurence Shatkin, 2001 Contains descriptions of approximately one thousand jobs grouped in fourteen major interest areas with information on required skills and knowledge education and training

**Bibliography of Science Courses of Study and Textbooks for Grades 7-12** National Science Teachers Association, 1968 El-Hi Textbooks and Serials in Print ,2006 *Chemical news and Journal of physical science* ,1879

**The Chemical News and Journal of Physical Science** ,1912      **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction      *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1905      Physical Science - Chemistry Split with Online Learning Center Password Card (Chapters 1 And 8 - 13) Bill W. Tillery,Tillery Bill,2004-01-09      *Conceptual Physical Science* Paul G. Hewitt,1998-11 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt's leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help readers The dynamic new media program includes hundreds of animations and interactive tutorials developed specifically for students taking physical science courses Media references throughout the book point readers to additional online help KEY TOPICS The book's consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science For college instructors students or anyone interested in physical science      *Proceedings of the Cambridge Philosophical Society* Cambridge Philosophical Society,1923      **Glencoe Physical Science** ,1999      *Subject Guide to Books in Print* ,1997      **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1977-07

**Annual Paperbound Book Guide for High Schools** ,1969      *The Science Teacher* ,1998 Some issues are accompanied by a CD ROM on a selected topic      **The Publishers' Trade List Annual** ,1981      **El-Hi Textbooks in Print** ,1984

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