

## Physical Science Study Guide Chapter 4

Name: \_\_\_\_\_

### Multiple Choice

*Identify the choice that best completes the statement or answers the question.*

1. Which of the following scientists inferred that an atom's positive charge must be clustered in the nucleus?  
a. Niels Bohr b. John Dalton c. Ernest Rutherford d. J.J. Thomson
2. Which particles in atoms have a negative electric charge?  
a. electrons b. protons c. neutrons d. nuclei
3. Mendeleev created the first periodic table by arranging elements in order of  
a. decreasing atomic mass. b. increasing atomic mass. c. increasing atomic number. d. increasing melting points and densities.
4. What prediction did Mendeleev make that came true less than 20 years later?  
a. He predicted the atomic numbers of unknown elements. b. He predicted that a total of 112 elements would be discovered. c. He said that three new elements would be discovered, and he described their properties. d. He said that the periodic table would be developed into 18 families.
5. The elements in a column of the periodic table  
a. have similar properties. b. are in the same period. c. have the same atomic mass. d. have very similar chemical symbols.
6. Most metals are NOT  
a. ductile. b. good conductors of heat and electricity. c. liquid at room temperature. d. malleable.
7. In general, which of the following statements about metals is true?  
a. Metals need to be stored in sealed containers for safety. b. Metals show a wide range of chemical properties. c. Metals are highly reactive substances. d. Metals do not react with oxygen.
8. Which group contains the most elements?  
a. semimetals b. nonmetals c. metals d. transition elements
9. In the periodic table, the most reactive metals are found  
a. in Group 1, the first column on the left. b. in Period 1, the first row across the top. c. in Groups 13 through 16 in the center. d. in Periods 6 and 7 at the bottom.
10. Which of the following statements about transition metals is true?  
a. They are never found uncombined in nature. b. They include familiar metals such as gold, silver, copper, and nickel. c. They are so soft that they can be cut with an ordinary knife. d. They are the most reactive of all the types of metals.
11. Which property of bromine could you NOT predict based on the fact that it is a nonmetal in the halogen family?  
a. highly reactive b. poor conductor of electricity c. liquid at room temperature d. poor conductor of heat
12. The elements that do not ordinarily form compounds are  
a. elements in the carbon family. b. metals. c. halogens. d. inert gases.
13. Fluorine, chlorine, bromine, and iodine are part of a family called  
a. inert gases. b. semimetals. c. halogens. d. alkali metals.
14. Which group of elements shares characteristics with both metals and nonmetals?  
a. salts b. semimetals c. halogens d. lanthanides
15. In 1896, the French scientist Henri Becquerel discovered

# Physical Science Chapter 4 Study Guide Answers

**Carol Tear**



## Physical Science Chapter 4 Study Guide Answers:

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**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

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Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years Science in a Jar Julia Garstecki, 2019-07-23 With Science in a Jar kids and grown ups need only gather a jar and a few other inexpensive and readily available household objects to begin investigating and confirming the science at work all around them The 35 experiments included cover various scientific disciplines life science earth science physical science weather and more Some activities like creating a cloud in a jar are quick experiments that can be performed over and over again Others like the earthworm habitat will be enjoyed over time Science in a Jar also features several projects that help demonstrate how science and art intertwine the sometimes overlooked A in STEAM Each experiment is headed by a supplies list and difficulty level as well as a short description of the project to be undertaken and the scientific principles with which the readers will interact Directions and photographs guide readers through the scientific method in each experiment while short features offer multileveled reading opportunities with explanations of terms interesting quick facts and brief descriptions of how scientists apply the specific concepts that readers just witnessed in the larger world today In addition to providing readers with a better understanding of basic scientific concepts Science in a Jar ignites curiosity increases confidence to investigate scientific concepts and fosters a love of science **Classroom Strategies for Interactive Learning** Doug

Buehl, 2023-10-10 Educators across all content areas have turned to Classroom Strategies for Interactive Learning for almost two decades The fourth edition delivers rich practical and research based strategies that readers have found invaluable in today s classrooms Author Doug Buehl has written all new chapters that focus on the instructional shifts taking place as the Common Core State Standards are implemented across the United States These introductory chapters will help you do the following Understand research based comprehension strategies for content classrooms Tap into students background knowledge to build upon and enhance comprehension of complex texts Teach students how to question a text Teach reading and thinking through a disciplinary lens At the heart of this edition are more than 40 classroom strategies with variations and strategy indexes that identify the instructional focus of each strategy pinpoint the text frames in play as students read and learn and correlate students comprehension processes In addition each strategy is cross referenced with the Common Core s reading writing speaking listening and language standards Gcse Physics Study Guide Carol Tear, 2007-09 This ultimate



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## The Enigmatic Realm of **Physical Science Chapter 4 Study Guide Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Physical Science Chapter 4 Study Guide Answers** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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