

## Chapter Test B

### Atomic Physics

#### MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ 1. What is the frequency of a photon with an energy of  $1.00 \times 10^{-19} \text{ J}$ ?  
 ( $h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$ )
- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| a. $1.00 \times 10^{21} \text{ Hz}$ | c. $3.00 \times 10^{12} \text{ Hz}$ |
| b. $2.00 \times 10^{21} \text{ Hz}$ | d. $4.00 \times 10^{12} \text{ Hz}$ |
- \_\_\_\_\_ 2. Light with an energy equal to three times the work function of a given metal causes the metal to eject photoelectrons. What is the ratio of the maximum photoelectron kinetic energy to the work function?
- |          |          |
|----------|----------|
| a. 1 : 1 | c. 3 : 1 |
| b. 2 : 1 | d. 4 : 1 |
- \_\_\_\_\_ 3. A monochromatic light beam with a quantum energy value of 3.0 eV is incident upon a photocell. The work function of the photocell is 1.6 eV. What is the maximum kinetic energy of the ejected electrons?
- |           |           |
|-----------|-----------|
| a. 4.6 eV | c. 1.4 eV |
| b. 4.8 eV | d. 2.4 eV |
- \_\_\_\_\_ 4. What causes the bright lines in the emission spectrum of an element to occur?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
  - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
  - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
  - Photons are emitted when electrons jump from a lower-energy to a higher-energy state.
- \_\_\_\_\_ 5. What causes the dark lines in the absorption spectrum of an element to occur?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
  - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
  - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
  - Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

# Physical Science Chapter 10 Test A

**Jay M. Pasachoff, LeVon Balzer, Phyllis  
L. Goodson, Ann Collins**

## Physical Science Chapter 10 Test A:

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 **Bulletin** ,1920 TASC For Dummies Stuart Donnelly,2016-10-03 Everything you need to pass the TASC If you re looking to gauge your readiness for the high school equivalency exam and want to give it all you ve got TASC For Dummies has everything you need The TASC Test Assessing Secondary Completion is a state of the art affordable national high school equivalency assessment that evaluates five subject areas reading writing mathematics science and social studies With the help of this hands on friendly guide you ll gain the confidence and skills needed to score your highest and gain your high school diploma equivalency Helps you measure your career and college readiness as outlined by the Common Core State Standards Focuses entirely on the 5 sections of the TASC and the various question types you ll encounter on test day Includes two full length TASC practice tests with complete answers and explanations So far New York Indiana New Jersey West Virginia Wyoming and Nevada have adopted TASC as their official high school equivalency assessment test If you re a resident of one of these states and want an easy to grasp introduction to the exam TASC For Dummies has you covered Written in plain English and packed with tons of practical and easy to follow explanations it gets you up to speed on this alternative to the GED **Critical Appraisal of Physical Science as a Human Enterprise** Mansoor Niaz,2009-02-07 It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist s th retical framework or presuppositions Holton 1969a has deplored the widely accepted myth experimenticism according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from un biguous experimental data Surprisingly some of the leading scientists themselves Millikan is a good example have contributed to perpetuate the myth with respect to modern science being essentially empirical that is carefully tested experim tal facts free of a priori conceptions leading to inductive generalizations Based on the existing knowledge in a field of research a scientist formulates the guiding assumptions Laudan et al 1988 presuppositions Holton 1978 1998 and hard core Lakatos 1970 of the research program that constitutes the imperative of presuppositions which is not abandoned in the face of anomalous data Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline philosophy of science without history of science is empty Starting in the 1960s this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century Among other aspects one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this

monograph Chapter 2 **Gaither's Dictionary of Scientific Quotations** Carl C. Gaither,Alma E. Cavazos-Gaither,2008-01-08 Scientists and other keen observers of the natural world sometimes make or write a statement pertaining to scientific activity that is destined to live on beyond the brief period of time for which it was intended This book serves as a collection of these statements from great philosophers and thought influencers of science past and present It allows the reader quickly to find relevant quotations or citations Organized thematically and indexed alphabetically by author this work makes readily available an unprecedented collection of approximately 18 000 quotations related to a broad range of scientific topics *Physical science* Jay M. Pasachoff,LeVon Balzer,Phyllis L. Goodson,Ann Collins,1983 **An Orthodox Understanding of the Bible with Physical Science** Geoffrey Ernest Stedman,2012-08-27 For centuries the Christian world and the scientific world have supposedly been at odds Those who strictly believe that God created the universe have had difficulty accepting such scientific concepts as the speed of light the immense distances of astronomy and the long ages of radioactivity and earth science This book bridges the gap between scientific and Christian beliefs by asking the reader What if both sides are parallel revelations by God An Orthodox Understanding of the Bible With Physical Science is a mixture of Biblical exposition and explanation of modern physical science including relativity and quantum theory The book also includes a chapter of scientific parables for children **Chemical News and Journal of Physical Science** ,1892 *Scott Foresman Science* ,2008 **Climate Change 2007 - The Physical Science Basis** Intergovernmental Panel on Climate Change,Intergovernmental Panel on Climate Change. Working Group I.,2007-09-10 The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provide the most comprehensive and balanced assessment of climate change available This IPCC Working Group I report brings us completely up to date on the full range of scientific aspects of climate change Written by the world s leading experts the IPCC volumes will again prove to be invaluable for researchers students and policymakers and will form the standard reference works for policy decisions for government and industry worldwide **The Chemical News and Journal of Physical Science** ,1907 *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1900 *The Elements of Physical Science, Demonstrated by the Student's Own Experiments and Observations* Gustavus Detlef Hinrichs,1870 [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

**Teacher's Manual to Accompany Physical Science** Frederick J. Bueche,1972     **Holt Physical Science** Mapi M. Cuevas,1994     **College Physical Science** Vaden Willis Miles,George Ray Sherwood,Willard Hall Parsons,1969     *Holt Physical Science* William L. Ramsey,1997-11     *Physics* Physical Science Study Committee,1957     *McGraw-Hill Education Preparation for the GED Test, Fourth Edition* McGraw Hill Editores, México,2021-03-19

Essential review and practice for all subject areas of the GED test This book covers all four subjects on the test Reasoning Through Language Arts RLA Social Studies Science and Mathematical Reasoning and provides intensive review and practice Pretests for each subject area will help you identify your strengths and weaknesses before starting your studies Learning objectives are based on the Common Core State Standards just like the real exam Extensive review questions are supplemented by two full length sample tests two in the book and two more on the app This new edition will show you how to master the test s new questions involving critical thinking and reasoning Features New Review questions on critical thinking and reasoning match latest test New Micro lessons section provides unique test taking strategies New Appendix covers the most important vocabulary for each section of the test 2 full length practice tests Step by step review of each of the test s main sections Reasoning Through Language Arts Mathematical Reasoning Science and Social Studies Top 25 lists that cover the most important concepts for each test subject Learning objectives based on the Common Core State Standards allowing you to use the book for all high school equivalency exams Two Score Raising Apps The Practice Test App provides two additional sample GED tests The Flashcard App includes 100 flashcards to help students review all four test sections

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