

1st Semester Honors Physics Exam Study Guide

1) The following problems are representative of the type problems that will be on the 1st semester exam. Exam will cover Chapters 1 - 5.

2) Please solve/answer each of these - pay particular attention to the "type" solution required for each one.

3) You will not be given ANY additional material - any and all equations and/or constants that YOU think you will need must be placed on either a 3x5 or 5x8 index card. This card must be submitted to me during the exam review days and approved by me. The "approved/signed" cards may be used during the exam.

4) YOU MUST HAVE YOUR CARD, CALCULATOR and PENCILS WITH YOU WHEN THE BELL RINGS TO START THE PERIOD. YOU WILL NOT BE PERMITTED TO GO GET ANYTHING AND/OR BORROW ANYTHING FROM ANYONE!!!!

- _____ 1. Since 1983 the standard meter has been defined in terms of which of the following?
 - a. specific alloy bar housed at Sevres, France
 - b. wavelength of light emitted by krypton-86
 - c. distance from the Earth's equator to the North Pole
 - d. the distance light travels in a certain fraction of a second
- _____ 2. Since 1967 the standard definition for the second has been based on which of the following?
 - a. characteristic frequency of the cesium-133 atom
 - b. average solar day
 - c. sidereal day
 - d. Greenwich Civil Time
- _____ 3. In mechanics, physicists use three basic quantities to derive additional quantities. Mass is one of the three quantities. What are the other two?
 - a. length and force
 - b. power and force
 - c. length and time
 - d. force and time
- _____ 4. The prefixes which are abbreviated p, n, and G represent which of the following?
 - a. 10^{-2} , 10^{-6} , and 10^{15}
 - b. 10^{-9} , 10^6 , and 10^{10}
 - c. 10^{-12} , 10^{-6} , and 10^9
 - d. 10^{-12} , 10^{-6} , and 10^{12}
- _____ 5. The nuclei of atoms contain:
 - a. electrons only.
 - b. neutrons only.
 - c. protons and electrons.
 - d. protons and neutrons.
- _____ 6. When was the existence of the neutron confirmed?
 - a. in ancient times
 - b. in 1895
 - c. in 1932
 - d. in 1969

Honors Physics Study Guide Answer Key

**Thomas Williams Bicknell, Albert
Edward Winship, Anson Wood Belding**

Honors Physics Study Guide Answer Key:

Honors Physics Essentials Dan Fullerton, 2011-12-13 Featuring more than five hundred questions with worked out solutions and detailed illustrations this book is integrated with the APlusPhysics.com website which includes online question and answer forums videos animations and supplemental problems to help you master Honors in physics essentials Page 4 of cover

Survey of Science History & Concepts Parent Lesson Plan, 2013-08-01 Survey of Science History Concepts Course Description Students will study four areas of science Scientific Mathematics Physics Biology and Chemistry Students will gain an appreciation for how each subject has affected our lives and for the people God revealed wisdom to as they sought to understand Creation Each content area is thoroughly explored giving students a good foundation in each discipline

Semester 1 Math and Physics Numbers surround us Just try to make it through a day without using any It's impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It's amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia first hand during fun and informative experiments Exploring the World of Physics is a great tool for student who want to have a deeper understanding of the important and interesting ways that physics affects our lives

Semester 2 Biology and Chemistry The field of biology focuses on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God's amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990's biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there

would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information Science Books & Films ,1989

The Next Generation of Fusion Energy Research United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Energy and Environment,2010 **Resources in Education** ,1998 American Journal of Physics ,2007 **Address by [the] Vice President, Section B, American Association for the Advancement of Science** Thomas Corwin Mendenhall,1882

Popular Science ,1938-04 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better Yearbook National Association of Secondary School Principals (U.S.). Pennsylvania Branch,1958

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1968 *Proceedings of the American Association for the Advancement of Science* American Association for the Advancement of Science,1883 Constitution, List of Meetings, Officers, Committees, Fellows and Members American Association for the Advancement of Science,1883 **Proceedings** American Association for the Advancement of Science,1883 Proceedings of the American Association for the Advancement of Science ,1883

Nominations of D. James Baker, Douglas K. Hall, Kathryn D. Sullivan, Arati Prabhakar, and Clarence L. Irving United States. Congress. Senate. Committee on Commerce, Science, and Transportation,1994 Distributed to some depository libraries in microfiche *New England Journal of Education* Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1878 Electrical Review ,1893 *Science & Technology Review* ,1999 Illustrated Electrical Review ,1893

Congressional Record United States. Congress,1977 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

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