

HONORS PHYSICAL SCIENCE

FINAL EXAM STUDY GUIDE

- **Science Skills**
 - Explain how science and technology are related
 - Describe the steps of the scientific method
 - Compare and contrast accuracy and precision
 - Perform calculations involving scientific notation and both temperature and metric conversion factors
 - Identify the relationship between a manipulated (independent) variable and a responding (dependent) variable
 - Compare and contrast a scientific law and a scientific theory
- **Properties and States of Matter**
 - Compare and contrast the characteristics of elements, compounds, pure substances, mixtures (heterogeneous and homogeneous), solutions, suspensions, and colloids
 - Understand the methods of separation
 - Compare and contrast physical and chemical properties, and physical and chemical changes
 - Explain the behavior of gases, liquids, and solids using kinetic theory
 - Predict changes in gas pressure due to changes in temperature, volume, and number of particles
 - Explain Charles's Law, Boyle's Law, and the combined gas law
 - Apply gas laws to solve problems involving gases
 - Name and describe each of the six phase changes. Which are endothermic and which are exothermic?
- **Atoms, Elements, and Bonds**
 - Compare and contrast Bohr and Rutherford's atomic models
 - Identify three subatomic particles and compare their properties
 - Compare and contrast atoms in ground and excited states
 - Distinguish the atomic number of an element from the mass number of an isotope, and use these numbers to describe the structure of atoms
 - Explain how the electron cloud model represents the behavior and locations of electrons in atoms
 - Understand the development and organization of the periodic table, especially in terms of group properties, atomic mass and valence electrons
 - Identify general properties of metals, nonmetals, and metalloids
 - Predict the reactivity of some elements based on their locations in the periodic table
 - Compare and contrast ionic and covalent bonds
 - Understand the concept of polarity and the role it plays in bonding
- **Chemical Reactions, Acids, and Bases**
 - Interpret chemical equations in terms of reactants, products, and conservation of mass
 - Balance chemical equations by manipulating coefficients
 - Convert between moles and mass of a substance using molar mass
 - Calculate amounts of reactants or products by using molar mass, mole ratios, and balanced chemical equations
 - Classify chemical reactions as synthesis, decomposition, single replacement, double replacement, or combustion reactions
 - Explain how energy is conserved during chemical reactions
 - Describe the factors affecting chemical reaction rates
 - Describe the factors affecting chemical equilibrium (see Chapter's Principles)
 - Define acid and describe some of the general properties of an acid
 - Define base and define some of the general properties of a base
 - Understand what a buffer is and how it can be used
 - Know what a neutralization reaction is, and what the products are
- **Nuclear Chemistry**
 - Describe the process of nuclear decay

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G Thomas



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Annual Catalogue United States Air Force Academy, 1985 **United States Air Force Academy** United States Air Force Academy, **Private Secondary Schools** Peterson's, 2011-05-01 Peterson's Private Secondary Schools is everything parents need to find the right private secondary school for their child. This valuable resource allows students and parents to compare and select from more than 1,500 schools in the U.S. and Canada and around the world. Schools featured include independent day schools, special needs schools, and boarding schools, including junior boarding schools for middle school students. Helpful information listed for each of these schools includes the school's area of specialization, setting, affiliation, accreditation, tuition, financial aid, student body, faculty, academic programs, social life, admission information, contacts, and more. Also includes helpful articles on the merits of private education, planning a successful school search, searching for private schools online, finding the perfect match, paying for a private education, tips for taking the necessary standardized tests, semester programs, and understanding the private schools admission application form and process. **Private Secondary Schools: Traditional Day and Boarding Schools** Peterson's, 2011-05-01 Peterson's Private Secondary Schools Traditional Day and Boarding Schools is everything parents need to find the right day or boarding private secondary school for their child. Readers will find hundreds of school profiles plus links to informative two-page in-depth descriptions written by some of the schools. Helpful information includes the school's area of specialization, setting, affiliation, accreditation, subjects offered, special academic programs, tuition, financial aid, student profile, faculty, academic programs, student life, admission information, contacts, and much more. *Resources in Education*, 1994-10 **Private Secondary Schools: Special Needs Schools** Peterson's, 2011-05-01 Peterson's Private Secondary Schools Special Needs Schools provides the help parents need to find the right therapeutic or special needs school for their child. Readers will find dozens of school profiles plus links to informative two-page in-depth descriptions written by some of the schools. Helpful information includes the school's area of specialization, setting, affiliation, accreditation, subjects offered, special academic programs, tuition, financial aid, student profile, faculty, academic programs, student life, admission information, contacts, and much more. *Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy* United States Air Force Academy, 1992 Peterson's Private Secondary Schools 2007 Thomson Peterson's, 2006-04 Lists and describes schools in the United States and Canada. *Catalogs of Courses* University of California, Berkeley, 1995 Includes general and summer catalogs issued between 1878-1879 and 1995-1997 **OAH Newsletter**, 1998

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