

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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