

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, molar 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 (Le Chatelier's Principle)
 - 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

Honors Physical Science Final Exam Study Guide

Clemens Wendtner



Honors Physical Science Final Exam Study Guide:

The Enigmatic Realm of **Honors Physical Science Final Exam Study Guide**: 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 **Honors Physical Science Final Exam Study Guide** a literary masterpiece penned by way of a renowned author, readers set about 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 who partake in its reading experience.

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