

Physical Science – 2nd Semester – Final Exam Study Guide – (2012–2013)

1. Physical Science Basics

- What tool(s) would you want to use to find the:
 - Mass of an object? triple beam balance Basic SI Unit? kg
 - Volume of an object? ruler or water displacement method Basic SI Unit? cm³ or ml
 - Length of an object? Ruler Basic SI Unit? meter
 - Density of an object? graduated cylinder Basic SI Unit? ml
- What is the formula for calculating density? mass/volume
 - What is the density of a cube that is 25 g and has a volume of 3 cm³? 8g/cm³
 - Compare the density of solid H₂O to liquid H₂O, and explain what observable effect this has.
solid H₂O less dense than liquid H₂O

2. Chemistry Basics

- Element (def.) substance made up of one kind of atom
- Atom (def.) basic building block of matter
- Compound (def.) a molecule that contains atoms or molecules of two or more different elements
- Molecule (def.) a combination of two or more of the same or different atoms that are bonded together

3. Model of the Atomic Evolution of the Atomic Theory

Atoms are so small that many scientists throughout history have created models to describe them.

Why have atomic theories changed over time? Better technology came around.

Scientist	Year	Major Discovery/ Contribution	Name of atomic model
John Dalton	1803	Each element is made up of small, indivisible particles called atoms. Different elements have atoms of different masses.	Billiard Ball Model
J.J. Thomson	1897	Negatively charged electron	Plum Pudding Model
Niels Bohr	1913	Electrons move <u>fixed orbits</u> around the atom's nucleus in specific layers, or <u>electron shells</u> . Atoms absorb or give off energy when the electrons move from one shell (<u>energy level</u>) to another.	Bohr Model
Ernest Rutherford	1909	1909 /Based on idea that positive reflects positive/ atom mostly empty space; electrons orbit randomly around positively charged nucleus	Planetary Model

4. Periodic Table

- The current periodic table is arranged by increasing atomic number.
- Reading the Periodic Table
 - An element's properties can be predicted from its location in the periodic table.
 - The atomic number represents the number of protons.
 - The atomic mass represents the number of protons and neutrons.

Physical Science Final Exam Ii Study Guide

Kevin Smith



Physical Science Final Exam Ii Study Guide:

This book delves into Physical Science Final Exam Ii Study Guide. Physical Science Final Exam Ii Study Guide is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Final Exam Ii Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Final Exam Ii Study Guide
 - Chapter 2: Essential Elements of Physical Science Final Exam Ii Study Guide
 - Chapter 3: Physical Science Final Exam Ii Study Guide in Everyday Life
 - Chapter 4: Physical Science Final Exam Ii Study Guide in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physical Science Final Exam Ii Study Guide. This chapter will explore what Physical Science Final Exam Ii Study Guide is, why Physical Science Final Exam Ii Study Guide is vital, and how to effectively learn about Physical Science Final Exam Ii Study Guide.
 3. In chapter 2, the author will delve into the foundational concepts of Physical Science Final Exam Ii Study Guide. The second chapter will elucidate the essential principles that need to be understood to grasp Physical Science Final Exam Ii Study Guide in its entirety.
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 5. In chapter 4, this book will scrutinize the relevance of Physical Science Final Exam Ii Study Guide in specific contexts. This chapter will explore how Physical Science Final Exam Ii Study Guide is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Physical Science Final Exam Ii Study Guide. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Final Exam Ii Study Guide.

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