

Physical Science – 2nd Semester – Final Exam Study Guide – (2012-2013)**1. Physical Science Basics**

- a. What tool(s) would you want to use to find the:
- i. Mass of an object? triple beam balance Basic SI Unit? kg
 - ii. Volume of an object? ruler or water displacement method Basic SI Unit? cm³ or ml
 - iii. Length of an object? Ruler Basic SI Unit? meter
 - iv. Density of an object? graduated cylinder Basic SI Unit? ml
- b. What is the formula for calculating density? mass/volume
- i. What is the density of a cube that is 15 g and has a volume of 3 cm³? 5g/cm³
 - ii. Compare the density of solid H₂O to liquid H₂O, and explain what observable effect this has.
solid H₂O is less dense than liquid H₂O

2. Chemistry Basics

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

3. Model of the Atom: 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	<u>1802</u>	Each element is made up of small, indivisible particles called atoms. Different elements have atoms of different masses.	<u>Billiard Ball Model</u>
J.J. Thomson	<u>1897</u>	Negatively charged electron	<u>Plum Pudding Model</u>
Niels Bohr	<u>1913</u>	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	<u>Bohr Model</u>
Ernest Rutherford	<u>1909</u>	1909 (<u>Based on idea that positive reflects positive</u>) atom mostly empty space; electrons orbit randomly around positively charged nucleus	<u>Planetary Model</u>

4. Periodic Table

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

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Marco Cascella



Physical Science 2nd Semester Study Guide 2012 2013:

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Table of Contents Physical Science 2nd Semester Study Guide 2012 2013

1. Understanding the eBook Physical Science 2nd Semester Study Guide 2012 2013
 - The Rise of Digital Reading Physical Science 2nd Semester Study Guide 2012 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 2nd Semester Study Guide 2012 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science 2nd Semester Study Guide 2012 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 2nd Semester Study Guide 2012 2013
 - Personalized Recommendations
 - Physical Science 2nd Semester Study Guide 2012 2013 User Reviews and Ratings
 - Physical Science 2nd Semester Study Guide 2012 2013 and Bestseller Lists
5. Accessing Physical Science 2nd Semester Study Guide 2012 2013 Free and Paid eBooks
 - Physical Science 2nd Semester Study Guide 2012 2013 Public Domain eBooks
 - Physical Science 2nd Semester Study Guide 2012 2013 eBook Subscription Services
 - Physical Science 2nd Semester Study Guide 2012 2013 Budget-Friendly Options
6. Navigating Physical Science 2nd Semester Study Guide 2012 2013 eBook Formats

- ePub, PDF, MOBI, and More
 - Physical Science 2nd Semester Study Guide 2012 2013 Compatibility with Devices
 - Physical Science 2nd Semester Study Guide 2012 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science 2nd Semester Study Guide 2012 2013
 - Highlighting and Note-Taking Physical Science 2nd Semester Study Guide 2012 2013
 - Interactive Elements Physical Science 2nd Semester Study Guide 2012 2013
 8. Staying Engaged with Physical Science 2nd Semester Study Guide 2012 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 2nd Semester Study Guide 2012 2013
 9. Balancing eBooks and Physical Books Physical Science 2nd Semester Study Guide 2012 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 2nd Semester Study Guide 2012 2013
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science 2nd Semester Study Guide 2012 2013
 - Setting Reading Goals Physical Science 2nd Semester Study Guide 2012 2013
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science 2nd Semester Study Guide 2012 2013
 - Fact-Checking eBook Content of Physical Science 2nd Semester Study Guide 2012 2013
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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