

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	1808	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.

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1. Understanding the eBook Physical Science Final Exam Study Guide Reviews
 - The Rise of Digital Reading Physical Science Final Exam Study Guide Reviews
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Final Exam Study Guide Reviews
 - 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 Final Exam Study Guide Reviews
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Final Exam Study Guide Reviews
 - Personalized Recommendations
 - Physical Science Final Exam Study Guide Reviews User Reviews and Ratings
 - Physical Science Final Exam Study Guide Reviews and Bestseller Lists
5. Accessing Physical Science Final Exam Study Guide Reviews Free and Paid eBooks

- Physical Science Final Exam Study Guide Reviews Public Domain eBooks
- Physical Science Final Exam Study Guide Reviews eBook Subscription Services
- Physical Science Final Exam Study Guide Reviews Budget-Friendly Options
- 6. Navigating Physical Science Final Exam Study Guide Reviews eBook Formats
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 - Physical Science Final Exam Study Guide Reviews Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Physical Science Final Exam Study Guide Reviews
 - Interactive Elements Physical Science Final Exam Study Guide Reviews
- 8. Staying Engaged with Physical Science Final Exam Study Guide Reviews
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Final Exam Study Guide Reviews
- 9. Balancing eBooks and Physical Books Physical Science Final Exam Study Guide Reviews
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Final Exam Study Guide Reviews
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Final Exam Study Guide Reviews
 - Setting Reading Goals Physical Science Final Exam Study Guide Reviews
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Final Exam Study Guide Reviews
 - Fact-Checking eBook Content of Physical Science Final Exam Study Guide Reviews
 - 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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