

# **Atoms & The Periodic Table**

## **Unit 3 Test Study Guide**

### **Lesson 1: The Atom**

1. Who was the ancient Greek philosopher that came up with the idea that all things are made of small "uncuttable" particles?
2. What is an atom?
3. What was John Dalton's contribution to the atomic theory?
4. What are the parts of an atom?
  - a. Where can each of these particles be found within an atom?
  - b. How do the electrical charges of protons, neutrons, and electrons compare to each other?
  - c. How do the masses of protons, neutrons, and electrons compare to each other?
5. What is an atomic number?
  - a. What does this tell about the structure of an atom?
6. What is the atomic mass (mass number)?
  - a. What does this tell about the structure of an atom?
    - i. How can the atomic mass help you find the number of neutrons in an atom?

### **Lesson 2: The Periodic Table**

1. What are elements?
2. What is the Periodic Table of Elements?
  - a. How are elements arranged on the Periodic Table?
3. Information found on each square of the Periodic Table:
  - a. Atomic Number (*See Lesson 1*)
  - b. What is a chemical name?
    - i. Examples
  - c. What is a chemical symbol?
    - i. Examples
  - d. Atomic Mass (*See Lesson 1*)
4. What are the 3 types of elements?
  - a. Where can these elements be found on the Periodic Table?
  - b. What are the characteristics of these types of elements?
5. What is a group?
  - a. What do the elements in a group have in common?
6. What is a period?
  - a. What do the elements in a period have in common?

### **Lesson 3: Electrons and Chemical Bonding**

1. What is a chemical bond?
  - a. Why do atoms form bonds?
    - i. How can you figure out what an atom will do to become "happy"?
2. What is a group of atoms that are chemically bonded called?
3. What are valence electrons?

# Atoms Periodic Table Study Guide Answer

**Pamela Mills,Amina El-Ashmawy**



## Atoms Periodic Table Study Guide Answer:

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## **Table of Contents Atoms Periodic Table Study Guide Answer**

1. Understanding the eBook Atoms Periodic Table Study Guide Answer
  - The Rise of Digital Reading Atoms Periodic Table Study Guide Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Atoms Periodic Table Study Guide Answer
  - 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 Atoms Periodic Table Study Guide Answer
  - User-Friendly Interface

4. Exploring eBook Recommendations from Atoms Periodic Table Study Guide Answer
  - Personalized Recommendations
  - Atoms Periodic Table Study Guide Answer User Reviews and Ratings
  - Atoms Periodic Table Study Guide Answer and Bestseller Lists
5. Accessing Atoms Periodic Table Study Guide Answer Free and Paid eBooks
  - Atoms Periodic Table Study Guide Answer Public Domain eBooks
  - Atoms Periodic Table Study Guide Answer eBook Subscription Services
  - Atoms Periodic Table Study Guide Answer Budget-Friendly Options
6. Navigating Atoms Periodic Table Study Guide Answer eBook Formats
  - ePub, PDF, MOBI, and More
  - Atoms Periodic Table Study Guide Answer Compatibility with Devices
  - Atoms Periodic Table Study Guide Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Atoms Periodic Table Study Guide Answer
  - Highlighting and Note-Taking Atoms Periodic Table Study Guide Answer
  - Interactive Elements Atoms Periodic Table Study Guide Answer
8. Staying Engaged with Atoms Periodic Table Study Guide Answer
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Atoms Periodic Table Study Guide Answer
9. Balancing eBooks and Physical Books Atoms Periodic Table Study Guide Answer
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Atoms Periodic Table Study Guide Answer
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Atoms Periodic Table Study Guide Answer
  - Setting Reading Goals Atoms Periodic Table Study Guide Answer
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Atoms Periodic Table Study Guide Answer
  - Fact-Checking eBook Content of Atoms Periodic Table Study Guide Answer
  - 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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