

CHAPTER 3**SKILLS LAB***Classifying*

Alien Periodic Table

Imagine that scientists have made radio contact with life on a distant planet. The planet is composed of many of the same elements as are found on Earth. But the inhabitants of the planet have different names and symbols for the elements. The radio transmission gave data on the known chemical and physical properties of 30 elements that belong to Groups 1, 2, 13, 14, 15, 16, 17, and 18. You need to place the elements into a blank periodic table based on these properties.

◆ **Problem** Where do the alien elements fit in the periodic table?

◆ **Materials**

ruler

periodic table from text for reference

◆ **Procedure**

1. Be sure to record your data into the blank periodic table.
2. Listed below are data on the chemical and physical properties of the 30 elements. Place the elements in their proper position in the blank periodic table.
 - ◆ The noble gases are bombal (Bo), wobble (Wo), jeptum (J), and logon (L). Among these gases, wobble has the greatest atomic mass and bombal the least. Logon is lighter than jeptum.
 - ◆ The most reactive group of metals are xtalt (X), byyou (By), chow (Ch), and quackzil (Q). Of these metals, chow has the lowest atomic mass. Quackzil is in the same period as wobble.
 - ◆ Apstrom (A), vulcania (V), and kratt (Kt) are nonmetals whose atoms typically gain or share one electron. Vulcania is in the same period as quackzil and wobble.
 - ◆ The metalloids are ernst (E), highho (Hi), terriblum (T), and sississ (Ss). Sississ is the metalloid with the greatest atomic mass. Ernst is the metalloid with the lowest atomic mass. Highho and terriblum are in Group 14. Terriblum has more protons than highho. Yazzzer (Yz) touches the zigzag line, but it's a metal, not a metalloid.
 - ◆ The lightest element of all is called pfsst (Pf). The heaviest element in the group of 30 elements is eldorado (El). The most chemically active nonmetal is apstrom. Kratt reacts with byyou to form table salt.

3

Alien Periodic Table Skills Lab With Answers

David J. WEINER



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Table of Contents Alien Periodic Table Skills Lab With Answers

1. Understanding the eBook Alien Periodic Table Skills Lab With Answers
 - The Rise of Digital Reading Alien Periodic Table Skills Lab With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Alien Periodic Table Skills Lab With Answers
 - 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 Alien Periodic Table Skills Lab With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alien Periodic Table Skills Lab With Answers
 - Personalized Recommendations
 - Alien Periodic Table Skills Lab With Answers User Reviews and Ratings
 - Alien Periodic Table Skills Lab With Answers and Bestseller Lists
5. Accessing Alien Periodic Table Skills Lab With Answers Free and Paid eBooks

- Alien Periodic Table Skills Lab With Answers Public Domain eBooks
 - Alien Periodic Table Skills Lab With Answers eBook Subscription Services
 - Alien Periodic Table Skills Lab With Answers Budget-Friendly Options
6. Navigating Alien Periodic Table Skills Lab With Answers eBook Formats
- ePub, PDF, MOBI, and More
 - Alien Periodic Table Skills Lab With Answers Compatibility with Devices
 - Alien Periodic Table Skills Lab With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Alien Periodic Table Skills Lab With Answers
 - Highlighting and Note-Taking Alien Periodic Table Skills Lab With Answers
 - Interactive Elements Alien Periodic Table Skills Lab With Answers
8. Staying Engaged with Alien Periodic Table Skills Lab With Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Alien Periodic Table Skills Lab With Answers
9. Balancing eBooks and Physical Books Alien Periodic Table Skills Lab With Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Alien Periodic Table Skills Lab With Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Alien Periodic Table Skills Lab With Answers
- Setting Reading Goals Alien Periodic Table Skills Lab With Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Alien Periodic Table Skills Lab With Answers
- Fact-Checking eBook Content of Alien Periodic Table Skills Lab With Answers
 - 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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