



Name: ANSWER KEY
Date: _____

THE PERIODIC TABLE

Review Worksheet

1. Fill in the blanks with the terms and words most appropriate to complete each sentence.

- a) In the mid-nineteenth century, only sixty or so elements had been discovered. In 1869 (a year) a Russian chemist and inventor named Dmitri Mendeleev created a chart called the periodic table that predicted the properties of elements that had not yet been discovered. He did this by arranging the elements according to their increasing atomic numbers and by their physical and chemical properties.
- b) Each element in the periodic table is represented by an element box. In this box there is the following information: two numbers, one is a whole number which is called the atomic number, and the other number is larger and contains a decimal, and this one is called the atomic mass. In the box, there is also the short form of the element called the element symbol, and then the full identity of the element which is written using the element name.
- c) Today the modern periodic table is arranged into columns and rows. The columns are called groups and there are 18 (a number) of them. The rows are called periods and there are 7 (a number) of them. The periodic table is divided by a zigzag line also known as the staircase that separates the metals, found on the left of it, from the non-metals, found on the right of it. Directly around the zigzag line are eight elements called metalloids.
- d) All the metals, except for mercury, which is a liquid, are found as solids at room temperature. The metals are also mostly shiny in color, are ductile, malleable, conduct electricity and some are attracted to magnets.
- e) At room temperature, most of the non-metals are found in the gas state except for bromine which is a liquid, and iodine selenium carbon, phosphorus and sulfur which are all found as solids. These elements are colorless or come in various colors, are not ductile, not malleable and do not conduct electricity nor are they attracted to magnets.
- f) Metalloids are elements that have some properties of metals and some properties of non-metals. They are all found in the solid state. Most have a silvery metallic luster, they are brittle and are medium to good electrical conductors.
- g) Chemical families are groups on the periodic table that contain elements that share similar properties.
- h) Group 1 elements are called the alkali metals and they contain the most reactive group of all the metals. They react very violently with water and therefore must be stored under mineral oil so that the water vapor in the air cannot react with these elements. These metals get more reactive as you go down (up or down) the group and the most reactive of all the elements in this group is francium.
- i) Group 2 elements are called the alkaline earth metals and they contain the second most reactive group of all the metals. They also react with water and get more reactive as you go down (up or down) the group.

Periodic Table Review Sheet Answers

David R. Klein



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Table of Contents Periodic Table Review Sheet Answers

1. Understanding the eBook Periodic Table Review Sheet Answers
 - The Rise of Digital Reading Periodic Table Review Sheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Table Review Sheet 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 Periodic Table Review Sheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Table Review Sheet Answers
 - Personalized Recommendations
 - Periodic Table Review Sheet Answers User Reviews and Ratings
 - Periodic Table Review Sheet Answers and Bestseller Lists
5. Accessing Periodic Table Review Sheet Answers Free and Paid eBooks
 - Periodic Table Review Sheet Answers Public Domain eBooks
 - Periodic Table Review Sheet Answers eBook Subscription Services
 - Periodic Table Review Sheet Answers Budget-Friendly Options
6. Navigating Periodic Table Review Sheet Answers eBook Formats

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