

CHAPTER 6

STUDY GUIDE

The Periodic Table and Periodic Law

Section 6.1 Development of the Modern Periodic Table

In your textbook, read about the history of the periodic table's development.

Use each of the terms below just once to complete the passage.

octaves

~~atomic mass~~~~atomic number~~~~size~~~~elements~~~~properties~~~~Henry Mosely~~~~eight~~

protons

~~periodic law~~~~Dmitri Mendeleev~~~~accepted~~

The table below was developed by John Newlands and is based on a relationship called the law of (1) properties. According to this law, the properties of the elements repeated every (2) eight elements. Thus, for example, element two and element (3) nine have similar properties. The law of octaves did not work for all the known elements and was not generally (4) accepted.

1	2	3	4	5	6	7
H	Li	G	Be	C	N	O
8	9	10	11	12	13	15
F	Na	Mg	Al	Si	P	S

The first periodic table is mostly credited to (5) Mendeleev. In his table, the elements were arranged according to increasing (6) atomic mass. One important result of this table was that the existence and properties of undiscovered (7) elements could be predicted.

The element in the modern periodic table are arranged according to increasing (8) atomic number, as a result of the work of (9) Mosely. This arrangement is based on number of (10) protons in the nucleus of an atom of the element. The modern form of the periodic table results in the (11) periodic law which states that when elements are arranged according to increasing atomic number, there is a periodic repetition of their chemical and physical (12) properties.

Periodic Table Study Guide Answers Key

JL Elias



Periodic Table Study Guide Answers Key:

The book delves into Periodic Table Study Guide Answers Key. Periodic Table Study Guide Answers Key is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Periodic Table Study Guide Answers Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Periodic Table Study Guide Answers Key
- Chapter 2: Essential Elements of Periodic Table Study Guide Answers Key
- Chapter 3: Periodic Table Study Guide Answers Key in Everyday Life
- Chapter 4: Periodic Table Study Guide Answers Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Periodic Table Study Guide Answers Key. This chapter will explore what Periodic Table Study Guide Answers Key is, why Periodic Table Study Guide Answers Key is vital, and how to effectively learn about Periodic Table Study Guide Answers Key.
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Periodic Table Study Guide Answers Key.

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