

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 And Periodic Law Solution Manual

Y Pai



Periodic Table And Periodic Law Solution Manual:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Periodic Table And Periodic Law Solution Manual**

In some sort of inundated with monitors and the cacophony of immediate interaction, the profound energy and psychological resonance of verbal beauty frequently disappear into obscurity, eclipsed by the continuous assault of sound and distractions. However, located within the lyrical pages of **Periodic Table And Periodic Law Solution Manual**, a interesting function of fictional brilliance that impulses with raw emotions, lies an unforgettable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this exciting opus books visitors on a mental odyssey, softly revealing the latent possible and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is central subjects, dissect its charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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