STUDY GUIDE FOR CONTENT MASTERY

The Periodic Table and Periodic Law

Section 6.1 Development of the Modern Periodic Table

In your textbook, reads 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 nine elements properties Henry Moseley eight protons periodic law Dmitri Mendeleev accepted

1	2	3	4	5	6	7
H.	U	G	Bo	C	N	0
8	9	10	11	12	13	14
7	No.	Mg	Al	54	P	5

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

The element in the modern periodic table are arranged according to increasing

(8) ______, as a result of the work of (9) ______. This arrangement is based on number of (10) ______ in the nucleus of an atom of the element. The modern form of the periodic table results in the

(11)______, which states that when elements are arranged according to increasing atomic number, there is a periodic repetition of their chemical and physical

(12)______

(7) could be predicted.

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