

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	nine
elements	properties	Henry Moseley	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)** _____. According to this law, the properties of the elements repeated every **(2)** _____ elements. Thus, for example, element two and element **(3)** _____ have similar properties. The law of octaves did not work for all the known elements and was not generally **(4)** _____.

1	2	3	4	5	6	7
H	Li	G	Bo	C	N	O
B	S	10	11	12	13	14
F	Na	Mg	Al	Si	P	S

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 **(7)** _____ could be predicted.

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)** _____.

Teaching Transparency The Periodic Table Answers

Christian Drosten



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Chapter Resource 31 Echinoderms/Invertebrates Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Oht Directory W/Tchng Nts Holt Chemfile Holt Rinehart & Winston, 1998-01-25 *Chemistry in the Community (Enhanced Core Four)* American Chemical Society, 2006-02-15 **Science in Your World: Teacher edition** Jay K. Hackett, 1991 **Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed**, 2000 *Glencoe Earth Science* Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8-9 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands-on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Chemistry** John S. Phillips, Cheryl Wistrom, 2000 *Prentice Hall Science Explorer: Teacher's ed*, 2005 **Test Preparation and Study Skills**, 2000 *Instructor's Manual with Test Bank [for] Basic Concepts of Chemistry, Fourth Edition* Alan Sherman, 1988 Teacher's Wraparound Edition: Two Biology Everyday Experience Albert Kaskel, 1994-04-19

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