

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
8	9	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 Worksheet Periodic Table

American Chemical Society

The logo of the American Chemical Society, featuring a red semi-circle with a white 'C' inside, positioned to the right of the text.

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Periodic Table Cindy Blobaum, 2005 What do chocolate chip cookies chemistry and logic have in common They are the basis for a unit that lets students become actively engaged in discovering the arrangement of the periodic table This learning activity takes the periodic table out of the static presentation usually associated with textbooks and chemistry courses and interjects an element of discovery The two activities in this unit provide students with information that they have to arrange in organized charts In the process of creating the arrangements students will be involved in problem solving and will gain an appreciation for the scientific process of exploration and verification This dynamic unit meets national science standards in seven teaching and content areas Bring the periodic table to life with this hands on minds on unit Book jacket *Chapter Resource 26 Plant Growth/Developmental Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Glencoe Science McGraw-Hill Staff, 2001-06 **Teaching: Not for Dummies / Substance Abuse Awareness: A Guidebook** P. J. Gammarano, M.A., J.D., 2008-02-11 In Part One each topic addresses practical skills for the newer teacher in the classroom to enable better facilitation practices Part Two addresses subject matter specific to becoming more knowledgeable about substance abuse today a factor for every teacher to be familiar with Useful for teacher education or certification courses If you re going into teaching at any level kindergarten through graduate school never mind having a plan B you d better have through plan Z and it s not sleeping Chapter Resource 32 Introduction/Vertebrates Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Te HS&T J Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **Prentice Hall Science Explorer: Teacher's ed**, 2005 **Exploring Earth and Space** Michael DiSpezio, 1995 A textbook exploring such aspects of matter and energy as heat electricity and nuclear chemistry with suggested activities and review questions at the end of each chapter **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **Addison-Wesley Science Insights**, 1996 **Chemistry in the Community** American Chemical Society, 2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design *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 **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **School Library Journal**, 1988 **Atoms, Molecules & Elements: The Periodic Table Gr. 5-8** George Graybill, 2015-10-01 This is the chapter slice The Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using

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