

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 The Periodic Table

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Elements and the Periodic Table, Grades 5 - 12 Theodore S. Abbgy, 2013-01-02 Aligned to Common Core State Standards Elements and the Periodic Table present the basics of the Periodic Table in an easy to understand easy to master way It contains fun activities transparency masters quizzes tests rubrics grading sheets and more From basic elements to table organization Elements and the Periodic Table is the essential handbook for middle school science **Elements and the Periodic Table, Grades 5 - 8** Abbgy, 2013-01-02 Aligned to Common Core State Standards Elements and the Periodic Table present the basics of the Periodic Table in an easy to understand easy to master way It contains fun activities transparency masters quizzes tests rubrics grading sheets and more From basic elements to table organization Elements and the Periodic Table is the essential handbook for middle school science **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 **Holt Chemistry** Ralph Thomas Myers, 2004 **Chapter Resource 26 Plant Growth/Developmental Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Chapter Resource 2 Chemistry of Life Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *The Fluid Earth Teacher's Guide*, *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 **Prentice Hall Chemistry**, 2000 **Discover Science: Teacher's resource book**, 1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society *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 **Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed**, 2000 *Teaching & Researching Big History: Exploring a New Scholarly Field* Leonid Grinin, David Baker, Esther Quaedackers, Andrey Korotayev, 2014-06-30 According to the working definition of the International Big History

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Teaching with Reading and Writing Mark A. Forget,2007-05-23 Research proven activities that engage students in active processing of new information leading to deeper understanding long term retention of subject matter and acquisition of life long learning skills Science Interactions Robert W. Avakian,1995-07-17

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