

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 The Periodic Table Answers

Linda Trombley, J. Weston Walch (Firm)

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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 [Science Spectrum](#) Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **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

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 simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives [Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8](#) George Graybill, 2015-10-01 This is the chapter slice Patterns In 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 simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives **Atoms, Molecules & Elements: What Are Elements? Gr. 5-8** George

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Mastering the Periodic Table Linda Trombley,1988

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Atoms, Molecules & Elements Gr. 5-8 George Graybill,2007-09-01 Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource makes the periodic table easier to understand Begin by answering what are atoms See how the atomic model is made up of electrons protons and neutrons Find out what a molecule is and how they differ from elements Then move on to compounds Find the elements that make up different compounds Get comfortable with the periodic table by recognizing each element as part of a group Examine how patterns in the period table dictate how those elements react with others Finally explore the three important kinds of elements metals nonmetals and inert gases Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included

The Basics of the Periodic Table Leon Gray,2013-12-15 A sweeping history of both the discovery and classification of elements and the development of the modern periodic table Included are discussions of the discovery of matter atoms atomic structure molecules compounds ions and isotopes as well as the first identifications of the 118 and counting elements and the various ways they have been classified and organized by prominent scientists up to the present day periodic table Instruction in how to read the periodic table is accompanied by examinations of the various groups of elements their location on the table and their properties and practical uses This text strongly supports Common Core

Standards for the reading of scientific and technical texts and accounts and furnishes ample opportunities to summarize cite evidence and analyze connections between ideas individuals and events **Mastering the Periodic Table** Linda Trombley,Faye Williams,2000 Whether students are studying chemistry biology or other sciences the periodic table is a vitally important tool These 50 word games puzzles and other creative activities unlock the nature of the various elements while explicating periodicity atomic structure element groups and more Complete teacher support includes background information answer keys and materials lists **Mastering the Periodic Table** Linda Trombley,J. Weston Walch (Firm),1985 *Atoms, Molecules & Elements: What Are Compounds? Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice What Are Compounds 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 simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives *The Periodic Table* Edward Shevick,2008-09-01 Implement Newton s First Law of Motion as a teaching principle with this packet students bodies at rest need many hands on activities impressed forces to learn compelling change This collection of Physical Science Action Labs will give your students plenty of experience with matter The labs include determining characteristics of matter focusing specifically on the periodic table Leveled Texts: The Periodic Table Joshua BishopRoby,2014-01-01 All students can learn about the periodic table through text written at four different reading levels Symbols on the pages represent reading level ranges to help differentiate instruction Provided comprehension questions complement the text *Facilitating Conceptual Change in Students' Understanding of the Periodic Table* Mansoor Niaz,Marniev Luiggi,2013-07-25 This book is about how students are taught the periodic table It reviews aspects of the periodic table s development using the history and philosophy of science The teaching method presented in this book is ideal for teaching the subject in high school and at introductory university level Chemistry students taught in this new experimental way are compared with those taught in the traditional way and the author describes how tests found more conceptual responses from the experimental group than the control group The historical aspects of importance to this teaching method are the role of the Karlsruhe Congress of 1860 the accommodation of the chemical elements in the periodic table prediction of elements that were discovered later corrections of atomic weights periodicity in the periodic table as a function of the atomic theory and the accommodation of argon The experimental group of students participated in various

activities including discussion of various aspects related to the history and philosophy of science construction of concept maps and their evaluation by the students PowerPoint presentations and interviews with volunteer students **Techniques in Teaching the Periodic Table** Randal L. Musch,1994 Laminated Color Periodic Table and Formula Sheet for Chemistry, Biochemistry, and Physics Laurence Lavelle,2012-07-17 Excellent presentation of the Periodic Table Visually appealing layout of Symbol Name Atomic Number Atomic Weight and Electron Configuration for each element **Quiz Yourself Clever! The Periodic Table** DK,2024-10-03 Get to grips with the periodic table with this fact packed quiz book Learn all the ingredients that make up the universe in this quiz book for children aged 9 that breaks down the periodic table Quiz Yourself Clever The Periodic Table goes through all 118 elements in an accessible and kid friendly way showing the pure form of every element through an eye catching image surrounded by quiz style questions This periodic table quiz book for children offers Fast and fun learning through the use of detailed images and interesting facts Hundreds of quick fire questions for children to quiz themselves and challenge friends and family Information that has been endorsed and authenticated by experts Vivid pictures and fast facts will allow children to gather a wealth of knowledge in a fun way Turn the page to find the answers contained in a handy dataset from its atomic number and mass to its melting point and when it was discovered Images of how it appears in nature and how we use it give a fuller understanding of each element More in the series If you enjoyed Quiz Yourself Clever The Periodic Table then why not test yourself other quiz books to boost your knowledge like Quiz Yourself Clever Rocks Minerals to get to grips with the fascinating rock and mineral forms all over the world or Animals of the World to learn about the most fascinating wildlife on our planet

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