

**MATH SKILLS TRANSPARENCY WORKSHEET****6****Using the Periodic Table****Use with Chapter 6,  
Section 6.2**

1. Identify the number of valence electrons in each of the following elements.

a. Ne \_\_\_\_\_ e. O \_\_\_\_\_  
b. K \_\_\_\_\_ f. Cl \_\_\_\_\_  
c. B \_\_\_\_\_ g. P \_\_\_\_\_  
d. Mg \_\_\_\_\_ h. Si \_\_\_\_\_

2. Identify the energy level of the valence electrons in each of the following elements.

a. Br \_\_\_\_\_  
b. N \_\_\_\_\_  
c. Ra \_\_\_\_\_  
d. H \_\_\_\_\_  
e. Ar \_\_\_\_\_  
f. I \_\_\_\_\_

3. Use the periodic table to write the electron configurations (using noble gas notation) for each of the following elements.

a. Li \_\_\_\_\_  
b. F \_\_\_\_\_  
c. As \_\_\_\_\_  
d. Sr \_\_\_\_\_  
e. Bi \_\_\_\_\_

4. Determine the group, period, and block of the elements having the following electron configurations.

a.  $1s^2$  \_\_\_\_\_  
b.  $[\text{Ne}]3s^23p^1$  \_\_\_\_\_  
c.  $[\text{Ar}]4s^1$  \_\_\_\_\_  
d.  $[\text{Kr}]5s^24d^1$  \_\_\_\_\_  
e.  $[\text{Xe}]6s^24f^{14}5d^{10}6p^4$  \_\_\_\_\_

# Teaching Transparency Worksheet The Periodic Table

**McGraw-Hill Staff**



## Teaching Transparency Worksheet The Periodic Table:

**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 Chapter Resource 32 Introduction/Vertebrates Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *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 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 *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 *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

**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 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** Adrian Dingle,Dan Green,2014 The original Basher Science made even better *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

**Mastering the Periodic Table** Linda Trombley,1988 *Elements and the Periodic Table, Grades 5 - 12* Theodore A. Abbgy,2001-01-01 This informative classroom supplement is a great introduction to the periodic table explored in sequential form It includes activities transparency masters a teacher s guide an element game quizzes tests rubrics and answer keys Unit topics include discovering what elements are the uses of the elements element symbols periodic table organization and more Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources

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**The Secret Life of the Periodic Table** Dr Ben Still,Hamlyn,2025-07-17 Every element has character be it volatile aloof gregarious or enigmatic They also have incredible stories of how they came to be how they were discovered and how their qualities have been harnessed to make everything we have in the world Dr Ben Still takes you through all the groups revealing the fascinating circumstances of their discoveries and explaining their characteristics and behaviour often delving inside the atom to explain their structure in a way easily accessible to everyone Insightful illustrations help you to understand even the most complex looking aspects of quantum physics bringing the periodic table to life Incredibly enlightening The Secret Life of the Periodic Table will entertain and inform in equal measure Take a trip through the ages of exploration enjoying the story of how Mendeleev s table came to be it is the story of one the greatest pattern seeking accomplishments of humankind Contents include Atomic physics The quantum atom Trends and patterns Alkaline earth metals Metalloids Future elements

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