

Using Clues to Identify Elements

Background Information

Chemical elements can be classified according to their properties as metals, nonmetals, and metalloids. Metals are good conductors of heat and electricity. Many metals are malleable and ductile. Nonmetals are poor conductors of heat and electricity, and solid nonmetals tend to be brittle. Metalloids have properties between those of metals and nonmetals.

Elements in the same group on the periodic table have the same number of valence electrons, which are electrons in the highest occupied energy level of an atom. The number of an A-group matches the number of valence electrons in atoms of each element in the group. For example, the Group 4A elements each have four valence electrons per atom. The exception to this pattern is the element helium, which is in Group 8A but has only two valence electrons.

Because elements in a group have the same number of valence electrons, they tend to have similar properties. The most reactive metals are the **alkali metals** in Group 1A on the far left side of the periodic table. The Group 2A elements are the **alkaline earth metals**, which are somewhat less reactive than the alkali metals. Groups of elements become less metallic in their properties from left to right across the periodic table. The most reactive nonmetals are the **halogens** in Group 7A. Group 8A contains the **noble gases**, which are colorless and odorless, and rarely react with other elements.

In this investigation, you will use a list of clues to identify 24 elements and place them in their correct locations in the periodic table.

Problem

Where do the elements described in the clues fit in the periodic table?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. **Analyzing Data** How will the index cards be useful when you are reading the clues to the elements?

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Kathryn Stout



Using Clues To Identify Elements:

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 *The Frugal Science Teacher, 6-9* Linda Froschauer,2010 By following the recommendations found in this book writes Froschauer a retired classroom teacher of 35 years you will find creative ways to keep expenses down and stretch your funds while building student understanding Book Jacket **New Possibilities for the Past** Penney Clark,2011-08-22 The place of history in school curricula has sparked heated debate in Canada Is Canadian history dead Who killed it Should history be put in the service of nation Can any history be truly inclusive New Possibilities for the Past advances the debate by shifting the focus from what should be included in a nation s history to how we should think about and teach the past Museum educators secondary school teachers historians and history educators document the state of history education research They go on to consider the implications of the research for classrooms from kindergarten to graduate school and in other contexts such as museums virtual environments and public institutional settings This book takes into consideration the perspectives of indigenous peoples the citizens of Quebec and advocates of citizenship education This volume sets a comprehensive research agenda for educators policy makers and historians to help students learn about and more importantly understand the significance of the past **10 Essential Instructional Elements for Students With Reading Difficulties** Andrew P. Johnson,2015-10-09 Brain friendly strategies to help all students become lifelong readers Learning to read is more than just an educational issue it s a social justice issue Did you know that struggling readers are twice as likely as their peers to drop out of high school Through time tested research based neurocognitive teaching strategies 10 Essential Instructional Elements for Students with Reading Difficulties will enable you to hone readers skills and help students from all grade levels develop their ability to create meaning from print Drawing from five key areas of neurocognitive research Andrew Johnson provides a ten point teaching strategy that encompasses vocabulary fluency comprehension writing and more A key resource for creating intervention plans for struggling readers features include Information on the often overlooked importance of emotions in the process of overcoming reading struggles Strategies to promote voluntary reading even for the most reluctant students Useful resources such as graphic organizers additional reading and writing activities and QR codes that link to videos Use these strategies today and you can count on more students leaving your classrooms as fluent lifelong readers Dr Johnson tells the story of reading in a logical and clear manner with a book that is excellently researched immaculately referenced and full of practical tips for the practitioner Terry Bernstein Former Senior Literacy Difficulties Specialist London Boroughs of Camden and Westminster UK This is the text I

wish I had when I began to teach Dr Johnson clearly illustrates the process our brain uses to create meaning from text Marty Duncan Ed D Author and Former Educator **Fundamental Approaches to Software Engineering** Maura

Ceroli,2005-03-24 This book constitutes the refereed proceedings of the 8th International Conference on Fundamental Approaches to Software Engineering FASE 2005 held in Edinburgh UK in April 2005 as part of ETAPS The 25 revised full papers presented together with an invited paper were carefully reviewed and selected from 105 submissions The papers are organized in topical sections on Web services graph grammars and graph transformations components product lines theory code understanding and validation UML and automatic proofs and provers The Elements of English William

Branford,2015-07-03 First published in 1967 this book was based on new descriptions of English emerging from recent research It provides an introduction to the study of the English language for the first year university student It will also be invaluable to all those concerned with the teaching and learning of English as a foreign or second language particularly the teacher in training and the university student *Implementing Cognitive Strategy Instruction Across the School* Irene West

Gaskins,Thorne T. Elliot,1991 This book is about thinking Help guide students with serious reading problems to be goal oriented planful strategic and self assessing Critical Conditioning Kathryn Stout,2000-11-30 Now you can see all of the

components of reading comprehension covered from grades K 8 along with definitions explanations and activity ideas

Teaching suggestions include ways of incorporating analysis and thinking skills while covering comprehension objectives

Topics include elements and types of literature reference skills SQRRR study skills propaganda techniques discussion

questions and more This is an area too easily forgotten when library books are used for your reading program For anyone using readers this will help eliminate the busy work Grades K 8 Can be used as a handbook for grades 9 12 *Elements of*

Literature ,1997 **Realism Theatre Elements** Rafael Montero,AI,2025-05-05 Realism Theatre Elements explores the evolution of theatre into a mirror reflecting everyday life dissecting the core components of theatrical realism and its modern impact It examines how theatre shifted from dramatic spectacle to reflecting ordinary scenarios with psychological depth Realism arose from societal changes prompting playwrights to employ naturalistic dialogue and character driven narratives The book delves into the historical context dramatic techniques and psychological dimensions of realism It traces the movement s origins its philosophical influences like scientific determinism and its departure from romanticism and melodrama The book progresses logically starting with historical context then examining playwriting directing and acting before finally exploring the psychological dimensions of characters and realism s legacy in contemporary theatre This study uniquely emphasizes the practical application of realist techniques providing detailed analyses of scenes and characters It demonstrates how realism can create compelling performances making it a valuable resource for students actors directors and theatre enthusiasts alike **Teaching Literary Elements with Favorite Chapter Books** Immacula A. Rhodes,2007

This book has engaging lessons graphic organizers and hand on activities that help students respond to what they read and

deepen comprehension School Library Journal ,1985 *Elements of Literature, Grade 6* Holt Rinehart & Winston,2002
 Collections of literary works and accompanying lessons covering conflict autobiography poetry main ideas short story drama
 subjective and objective writing and mythology and folk tales *Elements of Cartography* Arthur H. Robinson,1995-03-03
 This revised and updated edition integrates the latest in modern technology with traditional cartographic principles While
 providing a solid conceptual foundation in cartographic methodology the text also introduces advances that have greatly
 altered cartographic techniques **Science Scope** ,2003 Education on the Edge of Possibility Renate Nummela
 Caine,Geoffrey Caine,1997 In this book educators will find out what happened when authors took their theory of learning
 which is based on a wholistic interpretation of brain research and strived to bring it to life in two schools *Science*
 ,2000-05 **Elements of Film** Lee R. Bobker,1979 **Kansas City School Service Bulletin** Kansas City (Mo.). Board of
 Education,1929 *Quantum Fuzz* Michael S. Walker,2017 A lucid introduction to the basics of quantum physics for the lay
 reader showing how much the scientific understanding of reality has changed in the last century and how important this
 science is to technology the economy and modern life

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