

Name _____ Date _____ Per _____

Periodic Trends Lab

Periodic law states that when the elements are arranged in order of increasing atomic number, there is a periodic repetition of their chemical and physical properties. Elements within the same group have the most similar chemical and physical properties, although not identical. Elements in neighboring groups may also have similar chemical and physical properties, but to a lesser degree. Trends in properties occur within groups and across periods.

PURPOSE: In this activity, you will

- Interpret group and periodic trends in atomic radius, electronegativity, and ionization energy
- Graph these trends

PROCEDURE:

1. Complete the pre-lab section
2. Using the data from **Table S** of your reference tables, prepare the graphs listed below. Staple your graphs to the back of this lab packet.

On each graph be sure to:

- **USE PENCIL!**
- Put an appropriate title and labels for each axis.
- Omit the transition elements.
- Connect the points you plot.
- Connect the points representing Group 1 elements with a green line.
- Connect the points representing Group 2 elements with a blue line.
- Connect the points representing Group 17 elements with a red line.
- Draw a triangle around the points representing the elements of Period 3.

GRAPH 1. Atomic radius vs. atomic number for elements 1-54.

GRAPH 2. Electronegativity vs. atomic number for elements 1-54.

GRAPH 3. Ionization energy vs. atomic number for elements 1-54.

3. Complete the conclusion section.

Periodic Trend Lab

Pam Walker, Elaine Wood



Periodic Trend Lab:

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 **Exploring General Chemistry in the Laboratory**

Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

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

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H. Lynn Erickson, 2008 This book is a potent reminder of what it means when teachers teach whole human beings their minds hearts and souls Erickson helps us recall what all great teachers know quality teaching is about building young lives Carol Ann Tomlinson Professor University of Virginia Author The Parallel Curriculum Erickson sets the standard for concept based curriculum Her work offers a theoretically rich and eminently practical approach for constructing curriculum around rich transferable concepts The third edition extends this seminal work for the benefit of educators and their students Jay McTighe Educational Consultant McTighe and Associates Author Understanding by Design Help students analyze and synthesize information for a deeper understanding of big ideas This updated edition of the classic bestseller on curriculum design for quality instruction provides practical structures planning tools and specific classroom examples of effective teaching strategies The author focuses on the need for curriculum and instruction that allows students to move beyond factual learning to a level of understanding where knowledge transfers readily to new situations and thinking becomes integrated The book's wide ranging topics include Aligning local curriculum with state and national content standards Using brain

based teaching methods Developing higher order thinking skills Assessing and reporting student progress Creating a lifelong love of learning in students This invaluable resource encourages teachers to create an educational environment that challenges students personal intellect engages their spirits and fosters a greater understanding of the world around them

Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life *Science Action Labs Physical Science (ENHANCED eBook)* Edward Shevick, 1998-03-01

Matter and Motion These easy to use hands on explorations are just what you need to get your science curriculum and your students into action **Chemistry** McGraw-Hill Staff, 2001-07 **Explorer Academy: The Forbidden Island (Book 7)**

Trudi Trueit, 2022-10-04 A heart pounding final showdown changes the life of Cruz Coronado forever in the seventh and final book in this thrilling fact based fiction series Amid assignments that take the Explorer Academy recruits from the iceberg filled waters of Antarctica to the bone dry deserts of Argentina Cruz Coronado is scrambling to complete the last piece of the cipher With Nebula agents and the elusive explorer spy still out there his opportunity to recover his mother s world changing formula is slipping away But as Cruz has learned from his time aboard Orion true explorers must never give up Even after completing dozens of high risk missions and traveling to all seven continents Cruz could never prepare himself for one ultimate surprise Explorer Academy features Gripping fact based fiction plot that inspires curiosity with new technology and innovations amazing inventions and gadgets a cast of diverse relatable characters secret clues codes and ciphers to track down within the text vibrant illustrations elements of STEAM National Geographic explorer profiles in the Truth Behind section Complete your collection with The Nebula Secret 1 The Falcon s Feather 2 The Double Helix 3 The Star Dunes 4 The Tiger s Nest 5 The Dragon s Blood 6 Explorer Academy Codebreaking Activity Adventure Explorer Academy Ultimate Activity Challenge Explorer Academy Field Journal Explorer Academy Future Tech **To The Blue Sea** Chuck

Kershenblatt, 2003-06 Fourteen year old Charles Lublin thinks he has everything he needs a three foot bong an air brushed Bunger surfboard and a fine half ounce of Columbian It is the summer of 1977 and he s just graduated from Ventnor Middle School But there is one thing he hasn t reckoned on growing up An honest reflection on coming of age during the dope decade By turns raucous and introspective dead on funny and elegiac it beautifully describes a lost era **Changing Leads** Bonnie Bryant, 2014-08-19 Summer s over and Carole Stevie and Lisa are hoping things will get back to normal but is there even such thing as normal anymore The start of the new school year is a reality check for best friends Carole Hansen Stevie Lake and Lisa Atwood Stevie s boyfriend Phil is suddenly hanging out with Callie s brother Scott who still blames Stevie for the near fatal car accident that injured his sister Carole s new responsibilities at Pine Hollow Stables are threatening her

relationships with her friends and Lisa is having a hard time adjusting to being back in Willow Creek Has she ruined her possibility for a career in the entertainment industry And now Callie seems to be part of their special circle Jealousy betrayal and an explosive secret will make this semester an unforgettable one Forced to examine where their true loyalties lie the girls start to realize that nothing stays the same not even friendship

Literacy in Science and Technology, Grades 6 - 8 Schyrlet Cameron, Suzanne Myers, 2014-01-15 Literacy in Science and Technology Learning Station Activities to Meet CCSS builds student interest allows for inquiry and increases student achievement Includes Common Core State Standards matrices Can be used for center activities whole class instruction or individual assignments Topics include Electricity Science Lab Skills Space Exploration Periodic Table of Elements Volcanoes and Plate Tectonics 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

Exploring Chemistry in Today's World Kathy L. Tyner, 1993 The labs were specifically chosen with several goals in mind a To parallel lecture topics b To demonstrate important chemical principles c To employ the use of techniques of self discovery and the scientific method d To illustrate topics that are of public interest or concern e To encourage the application of chemistry outside the laboratory In keeping with these goals the author has included laboratory assignments that are applicable to the real world or contain supplemental exercises that illustrate an application Where possible commercial products are used such as aspirin antacids etc Each lab begins with written objectives Then in an effort to increase involvement before the lab work begins questions are posed that ask the student a To make predictions about the outcome of the experiment b To formulate a hypothesis c To think about a phenomenon in a specific way d To apply personal experience in answering a questions Pref

The S Files Rebecca Linam, 2015-04-25 Warning What you are about to read is a complete and truthful account of the world of espionage Forget everything you thought you knew about spies What you thought you knew is totally wrong For example did you know that the Russian Spy Agency employed seven year old spies the American Spy Agency s top scientist Dr Pepper cloned its most successful agents the Japanese Spy Agency developed a type of cheese that boosted its agents success rates by up to 25% the Spanish Spy Agency invented its famous tickle torture the Flemish Spy Agency uncovered a Martian plot to take over the world the Phlegmish Spy Agency was responsible for many major flu outbreaks during the Cold War You might also think that backwards Russian pig Latin is not a real spy code but it s listed in the Russian Spy Agency handbook This book explains how it really happens This is spying in its true exposed form This book will self destruct when you finish reading it

Beliefs: A Hidden Variable in Mathematics Education? G.C. Leder, Erkki Pehkonen, Günter Törner, 2005-12-28 This book focuses on

aspects of mathematical beliefs from a variety of different perspectives Current knowledge of the field is synthesized and existing boundaries are extended The volume is intended for researchers in the field as well as for mathematics educators teaching the next generation of students

Lab Manual for General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit www.whfreeman.com/gob

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

Chemistry John S. Phillips, Cheryl Wistrom, 2000

Parallel Curriculum Units for Science, Grades 6-12 Jann H. Leppien, Jeanne H. Purcell, 2011-02-15 Teachers at various stages of professional development in curriculum design will find these materials powerful examples that will guide their growth and development and sharpen their skills Mary L Slade Professor James Madison University Harrisonburg VA Supercharge your science curriculum to challenge all students Based on the best selling book The Parallel Curriculum this professional development resource gives multifaceted examples of rigorous learning opportunities for science students in Grades 6-12 The four sample units revolve around genetics the convergence of science and society the integration of language arts and biology and the periodic table The editors and contributors provide user friendly methods for creating more thoughtful lessons and show how to differentiate them for the benefit of all students Included are field tested and standards based strategies that guide students through Exploring the nature of knowledge Discovering connections between science and other subjects Deepening science comprehension according to their interests and abilities Connecting science to society through the study of genetics historic events literature and chemistry Each unit includes subject matter background a content framework study components teacher reflections and sample lessons Also available are online content tools such as handouts PowerPoint presentations and research activities Breathe new life into science learning with this powerful guidebook written by master educators

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