

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

M Walker



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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Stirring the Head, Heart, and Soul 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

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

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

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 Bungee 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

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

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Unveiling the Magic of Words: A Report on "**Periodic Trend Lab**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Periodic Trend Lab**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<https://crm.avenza.com/public/Resources/index.jsp/Organic%20Synthesis%203rd%20Edition%20Michael%20B%20Smith.pdf>

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