

POGIL: Periodic Table Trends

(Adapted from Rush Henrietta CSD)

Why:

The Periodic Table is one of the greatest inventions in the history of man. It allows scientists to predict physical and chemical properties of the elements. Dimitri Mendeleev (a Russian scientist) and Robert Mosley (a British chemist) put together this table in the late 1800's based on properties of the elements known at the time. The trends in these properties as you go across periods and down groups is the subject of this Chem POGIL.

Success Criteria:

- Understand the meaning of *atomic radius, reactivity, electronegativity, ionization energy*
- Recognize trends in atomic radius, reactivity, ionization energy and electronegativity as you go across periods and down groups.

Resources:

Reference Table S, Periodic Table, Unit 3 (Chapter 6) Notes, & Chapter 6 in textbook

Prerequisites:

Answer the following questions using the resources above.

1. What happens to the number of valence electrons as you go down a group on the periodic table?
2. What happens to the number of valence electrons as you go from left to right across a period?
3. What happens to the number of energy levels as you go down a group on the periodic table?
4. What happens to the number of energy levels as you go from left to right across a period?
5. Draw a Lewis structure for a Cl atom.
6. Draw a Bohr diagram for the Cl atom. (Draw above!)
7. In this lab we will be talking about atomic radius.
 - a. Look up the atomic radius of Cl on Table S: _____
 - b. Why is it possible to show the atomic radius using a Bohr diagram but not by using a Lewis structure?
 - c. On your Bohr diagram draw an arrow to represent the radius of the Cl atom.
8. Define *periodic*:
9. Define *trend*:

Geometry Connections Volume 2 Answers

Christian Drosten



Geometry Connections Volume 2 Answers:

Hidden Connections and Double Meanings David Wells, 2018-07-18 You don't have to be a mathematician to appreciate these intriguing problems and puzzles which focus on insight and imagination rather than technique Includes hints and solutions

Progress in Physics, vol. 2/2012 Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics

An Examination of Plato's Doctrines Vol 2 (RLE: Plato) I Crombie, 2012-11-27 Ian Crombie's impressive volumes provide a comprehensive interpretation of Plato's doctrines Volume 2 deals with more technical philosophical topics including the theory of knowledge philosophy of nature and the methodology of science and philosophy Each volume is self contained

Is the Answer Reasonable?, Grade 7, 2012-10-22 Each book contains a variety of activities from all five NCTM content standards to help students develop analytical skills Students will learn strategies and techniques for determining whether answers make sense The activities will improve students test taking strategies

TEXES Mathematics 7-12 (235) Book + Online Mel Friedman, 2020-08-12 TEXES Mathematics 7 12 235 Test Prep with Online Practice Tests Completely Aligned with Today's Exam REA's TEXES Mathematics 7 12 235 test prep is perfect for teacher education students and career changing professionals seeking certification as secondary mathematics teachers in Texas Finely tuned to help you succeed by a Texas based math education expert this Book Online prep package is fully aligned with the current test framework Our comprehensive review guides prospective secondary math teachers through all the domains and competencies tested on the TEXES 7 12 exam including Number concepts Patterns and algebra Geometry and measurement Probability and statistics Mathematical processes and perspectives Mathematical learning instruction and assessment The book is rich with examples and exercises that reinforce the concepts covered in each chapter Two full length practice tests both in the book and online offer realistic practice and are balanced to include every type of question and skill tested on the exam Go online with us to get your practice delivered in a timed format with automatic scoring and diagnostic feedback to help you zero in on the topics and types of questions that give you trouble now so you can succeed on test day This test prep is a must have for anyone who wants to become a Texas secondary math teacher

Harmonic Analysis and Convexity Alexander Koldobsky, Alexander Volberg, 2023-07-24 In recent years the interaction between harmonic analysis and convex geometry has increased which has resulted in solutions to several long standing problems This collection is based on the topics discussed during the Research Semester on Harmonic Analysis and Convexity at the Institute for Computational and Experimental Research in Mathematics in Providence RI in Fall 2022 The volume brings together experts working in related fields to report on the status of major problems in the area including the isomorphic Busemann Petty and slicing problems for arbitrary measures extremal problems for Fourier extension and extremal problems for classical singular integrals of martingale type among others

The History of Mathematics: A Source-Based Approach, Volume 2 June

Barrow-Green,Jeremy Gray,Robin Wilson,2022-05-26 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the second volume of a two volume set takes the reader from the invention of the calculus to the beginning of the twentieth century The initial discoverers of calculus are given thorough investigation and special attention is also paid to Newton s Principia The eighteenth century is presented as primarily a period of the development of calculus particularly in differential equations and applications of mathematics Mathematics blossomed in the nineteenth century and the book explores progress in geometry analysis foundations algebra and applied mathematics especially celestial mechanics The approach throughout is markedly historiographic How do we know what we know How do we read the original documents What are the institutions supporting mathematics Who are the people of mathematics The reader learns not only the history of mathematics but also how to think like a historian The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world **Non-Euclidean Geometries**

András Prékopa,Emil Molnár,2006-06-03 From nothing I have created a new different world wrote J nos Bolyai to his father Wolfgang Bolyai on November 3 1823 to let him know his discovery of non Euclidean geometry as we call it today The results of Bolyai and the co discoverer the Russian Lobachevskii changed the course of mathematics opened the way for modern physical theories of the twentieth century and had an impact on the history of human culture The papers in this volume which commemorates the 200th anniversary of the birth of J nos Bolyai were written by leading scientists of non Euclidean geometry its history and its applications Some of the papers present new discoveries about the life and works of J nos Bolyai and the history of non Euclidean geometry others deal with geometrical axiomatics polyhedra fractals hyperbolic Riemannian and discrete geometry tilings visualization and applications in physics **The Book of Days. A Miscellany of Popular**

Antiquities, in Connection with the Calendar ... Edited by R. Chambers Robert Chambers,1863 The Journal of Education ,1888

Geometry Connections Volume 2 Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Geometry Connections Volume 2 Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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