

Chapter 5 • Periodicity Activity

ATOMIC RADII

Directions: Using the given data for the sizes of atoms (atomic radii) below,

1. Create a line graph (use a ruler) by graphing *Period 2's* data on the graph below.
2. In a different color, create a line graph *Period 3's* data on the same graph.
3. Label each axis, and include a key/legend.
4. Answer all questions.

	1	2	13	14	15	16	17	18
1	H 1	Atomic Radii						He 2
2	Li 123	Be 89	B 88	C 77	N 70	O 66	F 64	Ne —
3	Na 157	Mg 136	Al 125	Si 117	P 110	S 104	Cl 99	Ar —
4	K 203	Ca 174	Ga 125	Ge 122	As 121	Se 117	Br 114	Kr —
5	Rb 216	Sr 192	In 150	Sn 140	Sb 141	Te 137	I 133	Xe —
6	Cs 235	Ba 198	Tl 155	Pb 154	Bi 152	Po 153	At —	Ra —

Note: Mark the vertical axis from 0 – 160 (by 20's)

Trend in Atomic Size Across the Periodic Table

Li	Be	B	C	N	O	F
Na	Mg	Al	Si	P	S	Cl

Horizontal Trend Questions

1. What is the trend in atomic size as you go ~~across~~ the periodic table? _____
2. This is true because there are more _____ (protons / electrons / layers of electrons) pulling the electron cloud in toward the nucleus.

Vertical Trend Questions

4. This is true because there are more _____ (protons / electrons / layers of electrons) making the electron cloud larger.

Periodicity Activity Answers

D Keegan

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Periodicity Activity Answers:

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 Chemistry R P Manchanda, A text book on Chemistry Chemistry: Molecules, Matter, and Change Media Activities Book Loretta Jones, Carl Hoeger, Peter William Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begin with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs **Saraswati Chemistry Class 10** RP Manchanda, A text book on Chemistry **UGC NET Management (17) Practice Question Bank Include 4000 + Question Answer With Solution (MCQ) As Per Updated Syllabus** DIWAKAR EDUCATION HUB, 2021-09-07 MCQs Highlights 1 Complete Units Cover Include All 10 Units Question Answer 2 400 Practice Question Answer Each Unit 3 Total 4000 Practice Question Answer 4 Try to take all topics MCQ 5 Include Oriented Most Expected Question Answer 6 As Per the New Updated Syllabus 7 All Question With Answer Explanations For More Details Call 7310762592 *Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12* Gary R. Muschla, 2015-05-18 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left

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Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...

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