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Date

Periodic Trends Worksheet

Directions: Use your notes to answer the following questions.

 Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

Oxygen < Carbon < Aluminum < Potassium

2. Rank the following elements by increasing electronegativity: sulfur, oxygen, neon, aluminum.

Neon < Aluminum < Sulfur < Oxygen

3. Why does fluorine have a higher ionization energy than iodine?

Fluorine has nine protons attracting 9 electrons which are much closer to the nucleus compared to lodine. This results in smaller size of Fluorine than lodine making it difficult to remove an electron from the atom.

4. Why do elements in the same family generally have similar properties?

Because they have same number of electrons in the outer shell (valence electrons) which take part in chemical reaction.

- Indicate whether the following properties increase or decrease from left to right across the periodic table.
 - a. atomic radius (excluding noble gases)
 - b. first ionization energy
 - c. electronegativity

Decreases Increases

Increases

What trend in atomic radius occurs down a group on the periodic table? What causes this trend?

Atomic radius increases down the group on the periodic table. As we compare the elements down the group, the effective nuclear charge increases, but at the same time the outermost electrons are found in the shell that is farther away from the nucleus. Also the number of screening electrons increases. This results in reduced attraction between the nucleus and the outermost electrons.

7. What trend in ionization energy occurs across a period on the periodic table? What causes this trend?

lonization energy increases from left to right across the period. The atomic size becomes smaller from left to right. So it becomes harder to remove electron from the atom. Hence the energy required to do so (lonization Energy) increases.

Periodic Table Trend Activities Answer Key

Pam Walker, Elaine Wood

Periodic Table Trend Activities Answer Key:

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 Units for Grades 9-12 Randy L. Bell, Joe Garofalo, 2005 Sample topics include cell division virtual dissection earthquake modeling the Doppler Effect and more The CMA/CFM Exam Sidney J. Baxendale, Richard Coppage, Alan Levitan, 2001-05 CBSE Chemistry Important Questions Chapter wise Class 10 Priti Singhal, 2024-11-13 We are pleased to present the CBSE Chemistry Important Questions Chapter Wise Class 10 a meticulously designed resource to help students excel in their CBSE board examinations This book offers a carefully curated collection of chapter wise important questions focusing on key concepts and frequently tested topics aligned with the Class 10 Chemistry syllabus Chemistry as a subject requires a deep understanding of concepts and their applications This book is structured to provide students with an effective learning experience ensuring they are well prepared for their exams Each chapter includes questions that reinforce conceptual clarity enhance problem solving skills and prepare students for the CBSE exam pattern Key Highlights Chapter Wise Coverage Questions are organized by chapters for systematic learning Exam Focused Content Includes questions frequently asked in CBSE board exams Detailed Solutions Step by step answers to facilitate self assessment and understanding Revision Friendly A perfect tool for guick revision of important concepts We hope this book serves as a valuable guide for Class 10 students helping them gain confidence master Chemistry and achieve outstanding results in their board examinations Complete IELTS Bands 4-5 Teacher's Book Guy Brook-Hart, Vanessa Jakeman, 2012-02-09 This text prepares students for the IELTS test at B1 foundation level It is designed to introduce students to the critical thinking required for IELTS and provide strategies and skills to maximise their score General Science Activity Book Brockway, 1988-10 Trends in American Living and Outdoor Recreation United States. Outdoor Recreation Resources Review Commission, 1962 Crushing ICE Blaine E. Hatt, 2022-12-08 21st century educators face a new frontier beyond the boundaries of traditional teaching practice and pedagogical praxis Imagination Creativity Education ICE creates fresh opportunities for teachers who are committed to genuine empowering experiential learning In Crushing ICE Short on Theoretical Long on Practical Approaches to Imagination Creativity Education teachers will discover how to take risks and transition with confidence from conventional to imaginative and creative approaches promote collaborative learning enrich the efficacy esteem and identity of learners implement learning centred strategies activities and practices informed by diverse theoretical perspectives advance meaningful inquiry and relational learning that engages learners at a deep level Every day teachers confronted with student exceptionalities multi age groupings overemphasis on provincial standardized

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Resources in Education ,1998 Prentice Hall Chemistry ,2000 Foreign Trade and Tariff Proposals United States. Department of Homeland Security Appropriations for 2007 Congress. House. Committee on Ways and Means, 1968 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2006 Physics Education Edward F. Redish, Matilde Vicentini, Società italiana di fisica, 2004 Physics Education research is a young field with a strong tradition in many countries However it has only recently received full recognition of its specificity and relevance for the growth and improvement of the culture of Physics in contemporary Society for different levels and populations This may be due on one side to the fact that teaching therefore education is part of the job of university researchers and it has often been implicitly assumed that the competences required for good research activity also guarantee good teaching practice On the other side and perhaps more important is the fact that the problems to be afforded in doing research in education are complex problems that require a knowledge base not restricted to the disciplinary physics knowledge but enlarged to include cognitive science communication science history and philosophy The topics discussed here look at some of the facets of the problem by considering the interplay of the development of cognitive models for learning Physics with some reflections on the Physics contents for contemporary and future society with the analysis of teaching strategies and the role of experiments the issue of assessmen **Unofficial Answers to the Uniform Certified** Public Accountants Examination American Institute of Certified Public Accountants, 1978 **Foreign Trade and Tariff Proposals: June 14, 17, 1968. pp. 1313-1828.-pt. 5. June 18, 1968. pp. 1829-2348** United States. Congress. House. Committee on Ways and Means, 1968 **The Outsourcing Process** Ronan McIvor, 2005-06-23 Outsourcing has become an increasingly important issue for many organisations. This book provides a framework for an up to date understanding of the outsourcing process and the key issues associated with it It integrates a number of contemporary topics including benchmarking buyer supplier relationships organisational behaviour competitor analysis and technology influences The analysis draws upon both empirical research and real case studies. The author starts by providing guidelines as to when

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