

Full Name _____ Date _____ Per _____ Chemistry Chapter 6 The Periodic Table

Periodic Trends Practice

1. Identify each element as a metal, metalloid, or nonmetal

germanium _____metalloid_____

zinc _____metal_____

phosphorous _____nonmetal_____

lithium _____metal_____

2. Give two examples of elements for each category

noble gases _____He,Ne,Ar,Kr,Xe,Rn_____

halogens _____F,Cl,Br,I,At_____

alkali metals _____Li,Na,K,Rb,Cs,Fr_____

alkaline earth metals _____Be,Mg,Ca,Sr,Ba,Ra_____

transition metals _____Any elements from 3B-2B_____

3. What trend in atomic radius do you see as you go down a group/family on the periodic table? What causes this trend?

Increases going down due to added energy levels. The inside energy levels are filled up so all remaining electrons must go into open spaces further away from the nucleus.

4. What trend in atomic radius do you see as you go across a period/row on the periodic table? What causes this trend?

Decreases going across due to electrons being added into the same valence shell. Protons would be added to the nucleus, making the positive charge stronger and electrons placed in the same space would be pulled in closer by the nucleus.

5. Circle the atom in each pair that has the largest atomic radius.

A. A B

B. S O

C. Br Cl

D. Na Al

E. O F

F. Mg Ca

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

O < C < Al < K

7. Define ionization energy. The amount of energy required to remove an electron from a neutral atom

8. Is it easier to form a positive ion with an element that has a high ionization energy or an element that has a low ionization energy? Explain. It would be easier to form a + ion with a low ionization energy because less energy would need to be used to remove the electron.

9. What trend in ionization energy do you see as you go down a group/family on the periodic table? What causes this trend? Going down a group the ionization energy decreases. The valence electrons are further away and easier to take away.

10. What trend in ionization energy do you see as you go across a period/row on the periodic table? What causes this trend? Going across the period, ionization energy increases. The atoms are smaller, so the nucleus is pulling electrons in closer making them harder to remove. The atoms are also increasing their number of valence electrons. As they get closer to having a complete set of 8 valence electrons they do not want to lose electrons any more, they want to gain them instead.

11. Circle the atom in each pair that has the greater ionization energy

A. Li Be

B. Ca Ba

C. Na K

D. P Ar

E. Cl Si

F. I K

12. Define electronegativity. The ability of an atom to attract electrons in a bond.

13. What trend in electronegativity do you see as you go down a group/family on the periodic table? What causes this trend? Values decrease within a group. Since the valence shell becomes further away, it is harder for the nucleus to draw electrons towards it.

14. What trend in electronegativity do you see as you go across a period/row on the periodic table? What causes this trend? Values increase across a period because the atoms are getting smaller and the nucleus can pull electrons in easier and the atoms are closer to being like noble gases. They want to be able to complete their valence shell.

Periodic Trend Data Charts Answer Key

**Richard A. McPherson, Matthew R.
Pincus**



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The Data Warehouse Toolkit Ralph Kimball, Margy Ross, 2011-08-08 This old edition was published in 2002 The current and final edition of this book is The Data Warehouse Toolkit The Definitive Guide to Dimensional Modeling 3rd Edition which was

published in 2013 under ISBN 9781118530801 The authors begin with fundamental design recommendations and gradually progress step by step through increasingly complex scenarios Clear cut guidelines for designing dimensional models are illustrated using real world data warehouse case studies drawn from a variety of business application areas and industries including Retail sales and e commerce Inventory management Procurement Order management Customer relationship management CRM Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts

100 Puzzles to Learn Data Warehousing Cristian Scutaru, Learning how to design a data warehouse may be difficult Ralph Kimball has some great legacy books on the dimensional modeling techniques but they are verbose with complicated examples Our illustrated examples here are kept simple on purpose to help you better understand complicated concepts like periodic snapshot fact tables degenerate dimensions late arriving facts or dimensions We focus our puzzles on Ralph Kimball s dimensional modeling techniques but we also introduce you to Extract Transform Load ETL basics OLAP fundamentals and some other important things you must know about data warehouses in general We dive deep into slowly changing dimensions SCD with other illustrated examples to help you get the ideas in no time You need just some basic prior knowledge about Data Warehouses in general The explanations and external references from the answers to our questions will help you learn the rest We also assume you already have some basic background in data modeling for relational databases and SQL These puzzles are for Software Developers and Engineers Database Engineers and Architects or Data Analysts Difficulty level is from beginner to advanced We ve split the 100 questions into 5 quizzes with 20 single and multi choice questions each Try solving each quiz separately writing down on a piece of paper the answer to each question Then go to the Answers and Explanations section and learn more from our solutions to the puzzles Follow the links to external references for a deep dive on the subject An interactive version of this book has been implemented on Udemy as 100 Puzzles to Learn Data Warehousing

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