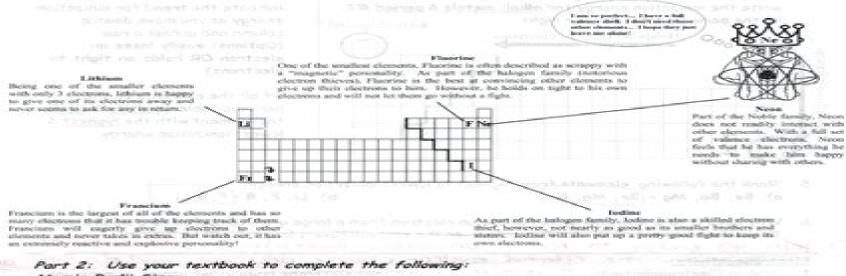
Trends on the Periodic Table

Part 1: Identifying chemical properties/characteristics of the elements

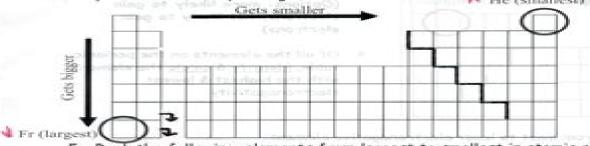
For each of the following elements, draw a caricature or cartoon above the description to show its "chemical personality" based on the description provided. (Note: See the Neon example for ideas.)



Atomic Rodii Size:

1. Explain atomic radius: A measure of the size (volume) of an atom. Determined by measuring half of the distance between two identical atoms bonded together.

2. Using the information in figure 5-13 (pg 141) in your book, write the atomic radii size for alkali metals & period #2 on the periodic table to your right.



- 3. What happens to atomic radii as you move down a column and across a row? On the arrows on the diagram, indicate the trend. (Options: gets bigger OR gets smaller)
- 4. Of all the elements on the periodic table, identify & circle the largest & smallest in size.
- Rank the following elements from largest to smallest in atomic radii: a) Be, Ba, Mg = Ba, Mg, Be
- 6. How can you explain the trend:

a. Why do they get smaller as you go across a period? Additional protons in the nucleus "pull" on

in creases the attraction of the nucleus and therefore cloud close to the nucleus resulting

Periodic Trends Answers Key Pogil

Cybellium

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Chemistry and Our Universe, Return to the periodic table introduced in Lecture 1 to practice predicting properties of elements based on their electronic structure Then witness what happens when three different alkali metals react with water Theory forecasts a pronounced difference in the result Is there Chemical Periodicity Robert Thomas Mastering the Periodic Table Cybellium Ltd, 2024-10-26 Designed for professionals students Sanderson, 2013-04-20 and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com **Understanding the Periodic Table: A Chemistry Guide** Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cuttign edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com **The Periodic Table** Eric R. Scerri, 2019-07-25 The periodic table of elements first encountered by many of us at school provides an arrangement of the chemical elements ordered by their atomic number electron configuration and recurring chemical properties and divided into periodic trends In this Very Short Introduction Eric R Scerri looks at the trends in properties of elements that led to the construction of the table and shows how the deeper meaning of the table s structure gradually became apparent with the development of atomic theory and in particular quantum mechanics which underlies the behaviour of all of the elements and their compounds This new edition publishing in the International Year of the Periodic Table celebrates the completion of the seventh period of the table with the ratification and naming of elements 113 115 117 and 118 as nihonium moscovium tennessine and oganesson Eric R Scerri also incorporates new material on recent advances in our understanding of the origin of the elements as well as developments concerning group three of the periodic table ABOUT THE SERIES The Very Short Introductions series from

Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable The Amazing World of the Atom and the Ultimate Periodic **Table of the Elements** Costel Rizescu, Mihaela Rizescu, 2018-05-24 This book is addressed to undergraduate and graduate students taking physics and chemistry courses at an introductory level STEM high school students and to more experienced professors and researchers who need to stay up to date with the most recent advances in data as well It is also beneficial to those involved in materials science medical physics biotechnology astronomy quantum chemistry Earth and space science and other related fields. The volume consists of two parts the first part is devoted to the quantum mechanics theory of atomic structures as discovered and verified by physics whereas the second part presents and analyzes a large amount of the latest critically evaluated data for the properties of all elements on the periodic table of the elements Periodic trends for ionization energy electronegativity atomic radius density and melting points are graphed and thoughtfully analyzed Additional data of ionic radius covalent radius van der Waals radius and 12 coordination atomic radius for almost all elements on the periodic table are also presented and evaluated The authors discussed over 30 problems review questions and their solutions to help deepen the insight in this subject area to make this book a real study text Plenty of problems are given to elucidate the material This book represents the culmination of the authors many years of research and teaching physics materials science and instrumentation It is also a crystallization of their passion and strong interest in the history of atomic physics and the philosophy of science in general From the beginning it was authors intention to include information in this book that is not easily located elsewhere or is not found completely in a single book or publication Thus while this book can be used as a text the authors hope that it will be used as a useful reference too Each chapter and sub chapter of this book capitalizes on the strengths comments feedback and criticism that the authors expect to have from students faculty and working professionals

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