

Periodic Trends Worksheet

Use the periodic table and your knowledge of periodic trends to answer the following questions.

1. Which atom in each pair has the larger atomic radius?
a) Li or **K** b) **Ca** or Na c) **Ga** or B d) O or **C** e) Cl or **Br**
f) Be or **Ba** g) **Si** or S h) Fe or **Au**

2. What is the periodic trend for atomic size from top to bottom in a group? from left to right in a period?

Top to bottom: increases due to adding energy levels Left to Right: decreases

3. Why do atoms get smaller as you move left to right in a period?
due to increased nuclear charge and no added shielding

4. Which element in each pair has a larger ionization energy?
a) Na or **O** b) **Be** or Ba c) **Ar** or F d) **Cu** or Ra e) I or **Ne**
f) K or **V** g) **Ca** or Fr h) W or **Se**

5. Explain the relationship between the relative size of an ion to its neutral atom and the charge on the ions.
Positive ions are smaller than the neutral atom it comes from, negative ions are larger than the neutral atom it comes from

6. Which particle has the larger radius in each atom/ion pair?
a) Na, Na^+ b) S, S^{2-} c) I, I^- d) **Al**, Al^{3+}

7. What is ionization energy? What is first ionization energy?

The amount of energy needed to remove an electron from an atom. First ionization energy is the energy required to remove a single valence electron from an atom.

8. What is the periodic trend for first ionization energy?

It increases going from left to right due to increased nuclear charge, and decreases going down a group due to increased distance from the nucleus and increased shielding.

9. Arrange the following groups of elements in order of increasing ionization energy.
a) Be, Mg, Sr b) Bi, Cs, Ba c) Na, Al, S
high, middle, low high, low, middle low, middle, high

10. Which element in each pair has a higher electronegativity value?
a) Cl, **F** b) C, **N** c) **Mg**, Ne d) As, Ca

11. What is the periodic trend for electronegativity? Increases going left to right, decreases going down.

15 Periodic Trends Answers

**William H. Brown, Frederick A.
Bettelheim, Jerry March**



15 Periodic Trends Answers:

Elements and the Periodic Table, Grades 5 - 12 Theodore A. Abbgy, 2001-01-01 This informative classroom supplement is a great introduction to the periodic table explored in sequential form It includes activities transparency masters a teacher s guide an element game quizzes tests rubrics and answer keys Unit topics include discovering what elements are the uses of the elements element symbols periodic table organization and more Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources *Chemistry 2* Western Australia. Education Department. Curriculum Branch of Western Australia, 1999 *SCIENCE FOR TENTH CLASS PART 2 CHEMISTRY* LAKHMIR SINGH, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts Part 1 Physics Part 2 Chemistry Part 3 Biology *Science For Tenth Class Part 2 Chemistry* Lakhmir Singh & Manjit Kaur, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts Part 1 Physics Part 2 Chemistry Part 3 Biology **Arihant CBSE Science Term 2 Class 10 for 2022 Exam (Cover Theory and MCQs)** Naman jain, Jyoti Agarwal, Anam Aarzo, 2021-11-20 With newly introduced 2 Term Examination Pattern CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant s CBSE TERM II 2022 Series the first of its kind that gives complete emphasize on the rationalize syllabus of Class 10th 12th The all new CBSE Term II 2022 Science of Class 10th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the chapters in a complete and comprehensive manner Covering the 50% of syllabus as per Latest Term wise pattern 2021 22 this book consists of 1 Complete Theory in each Chapter covering all topics 2 Case Based Short and Long Answer Type Question in each chapter 3 Coverage of NCERT NCERT Exemplar Board Exams Questions 4 Complete and Detailed explanations for each question 5 3 Practice papers base on entire Term II Syllabus Table of Content Carbon and its compounds Periodic Classification of Elements How do Organisms Reproduce Heredity and Evolution Electricity Magnetic Effects and Electric Current Our Environment Practice Paper 1 3 *Prentice Hall Chemistry*, 2000 *Science Games and Puzzles, Grades 5 - 8* Schyrlet Cameron, Carolyn Craig, 2012-01-03 This book promotes science vocabulary building increases student readability levels and facilitates concept development through fun and challenging puzzles games and activities *Chemical Interactions*, 2005 **Campbell's Accent on Numbers Quiz Book** John P. Campbell, 2000-10 *Fundamentals of General, Organic, and Biological Chemistry* John R. Holum, 1982 User friendly this comprehensive and up to date edition is organized according to the principle that life in both health and disease has a

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Table of Contents 15 Periodic Trends Answers

1. Understanding the eBook 15 Periodic Trends Answers
 - The Rise of Digital Reading 15 Periodic Trends Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 15 Periodic Trends Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 15 Periodic Trends Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 15 Periodic Trends Answers
 - Personalized Recommendations
 - 15 Periodic Trends Answers User Reviews and Ratings
 - 15 Periodic Trends Answers and Bestseller Lists

5. Accessing 15 Periodic Trends Answers Free and Paid eBooks
 - 15 Periodic Trends Answers Public Domain eBooks
 - 15 Periodic Trends Answers eBook Subscription Services
 - 15 Periodic Trends Answers Budget-Friendly Options
6. Navigating 15 Periodic Trends Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 15 Periodic Trends Answers Compatibility with Devices
 - 15 Periodic Trends Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 15 Periodic Trends Answers
 - Highlighting and Note-Taking 15 Periodic Trends Answers
 - Interactive Elements 15 Periodic Trends Answers
8. Staying Engaged with 15 Periodic Trends Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 15 Periodic Trends Answers
9. Balancing eBooks and Physical Books 15 Periodic Trends Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 15 Periodic Trends Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 15 Periodic Trends Answers
 - Setting Reading Goals 15 Periodic Trends Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 15 Periodic Trends Answers
 - Fact-Checking eBook Content of 15 Periodic Trends Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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