

## Periodic Trends Worksheet

*Directions: Use your notes to answer the following questions.*

1. 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 iodine. This results in smaller size of Fluorine than iodine 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.

5. Indicate whether the following properties increase or decrease from left to right across the periodic table.

- |  |                  |
|--|------------------|
| a. atomic radius (excluding noble gases) | <b>Decreases</b> |
| b. first ionization energy               | <b>Increases</b> |
| c. electronegativity                     | <b>Increases</b> |

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

Atomic radius **decreases** 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?

Ionization 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 (ionization Energy) increases.

# Periodic Trends And Properties Of Elements Lab Answer Keys

**M Tight**



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**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

**Prentice Hall Science Explorer** Michael J. Padilla, 2002

**Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

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**Chemistry Trends** Keith B. Hutton, 2024-12-15 Today s fast moving world of science will have far reaching effects on all of our lives Trends in Science is a series of essential readings for anyone who wants to know more about how his or her future will be affected as well the series provides accessible and stimulating material for high school and college students for researchers and librarians All titles in the series provide an introductory overview of the field in the last 100 years reviewing the past but also predicting the new developments of the future a detailed chronology of the most important milestones an index of key terms and concepts biographies of the most important scientists in each field and their role in shaping their particular branch of science a listing of important Websites a directory of organizations and suggestions for further reading

**The Software Encyclopedia**, 1986

*Carolina Science and Math* Carolina Biological Supply Company, 2003

*Biology/science Materials* Carolina Biological Supply Company, 1991

*Prentice Hall Chemistry*, 2000

**21st Century Nanoscience - A Handbook** Klaus D. Sattler, 2020-11-13 21st Century Nanoscience A Handbook Public Policy Education and Global Trends Volume 10 will be the most comprehensive up to date large reference work for the field of nanoscience Its predecessor Handbook of Nanophysics by the same editor was published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This tenth volume in a ten volume set covers nanophotonics nanoelectronics and nanoplasmonics Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasizes presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals

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## **Periodic Trends And Properties Of Elements Lab Answer Keys** Book Review: Unveiling the Power of Words

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