

# GRAPHING TRENDS OF THE PERIODIC TABLE

## CHEMISTRY

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

PERIOD: \_\_\_\_\_

### Graphing Periodic Table Trends

**Directions:** Using the provided graph paper, graph each of the elemental properties using a line graph. Place the property on the Y-axis and the Atomic number on the X-axis. Draw a dark, solid, vertical line on each graph where each row on the periodic table ends. (i.e. after atomic number 10). Use the graphs to analyze the trends in these properties and to answer the questions on the back.

Atomic Radius (pm)							
Lithium - 3	152	Sodium - 11	190	Potassium - 19	243	Rubidium - 27	265
Beryllium - 4	112	Magnesium - 12	145	Calcium - 20	194	Strontium - 28	219
Boron - 5	87	Aluminum - 13	118	Gallium - 31	136	Indium - 49	156
Carbon - 6	67	Silicon - 14	111	Germanium - 52	125	Tin - 50	145
Nitrogen - 7	56	Phosphorus - 15	98	Arsenic - 33	114	Antimony - 51	133
Oxygen - 8	48	Sulfur - 16	88	Selenium - 34	103	Tellurium - 52	123
Fluorine - 9	42	Chlorine - 17	79	Bromine - 35	94	Iodine - 53	115

Ionization Energy (kJ/mol)							
Lithium - 3	520	Sodium - 11	496	Potassium - 19	419	Rubidium - 27	403
Beryllium - 4	900	Magnesium - 12	738	Calcium - 20	590	Strontium - 28	550

### Atomic Radius



# Graphing Trends In The Periodic Table Nys Lab Answers

**Lingjun Ying**



## Graphing Trends In The Periodic Table Nys Lab Answers:

**The Science Teachers Bulletin** ,1989     Wallerstein Laboratories Communications on the Science and Practice of Brewing Wallerstein Laboratories,1962     *The Nation's Health* ,1921     *Wallerstein Laboratories Communications* Wallerstein Laboratories,1962     **Quarterly Report, Provisional Data** ,1982     DAWN Quarterly Reports ,1981     Nation's Health ,1921     **The Software Encyclopedia** ,1988     **Environment Abstracts** ,1985     Physical Properties of Materials, Third Edition Mary Anne White,2018-10-12 Designed for advanced undergraduate students and as a useful reference book for materials researchers Physical Properties of Materials Third Edition establishes the principles that control the optical thermal electronic magnetic and mechanical properties of materials Using an atomic and molecular approach this introduction to materials science offers readers a wide ranging survey of the field and a basis to understand future materials The author incorporates comments on applications of materials science extensive references to the contemporary and classic literature and 350 end of chapter problems In addition unique tutorials allow students to apply the principles to understand applications such as photocopying magnetic devices fiber optics and more This fully revised and updated Third Edition includes new materials and processes such as topological insulators 3 D printing and more information on nanomaterials The new edition also now adds Learning Goals at the end of each chapter and a Glossary with more than 500 entries for quick reference     *Resources in education* ,1984-09     **Energy Research Abstracts** ,1980-10     **The New York Times Index** ,2004     **Developing Thinking in Statistics** Alan Graham,2006-03-03 This book should prove to be an important addition to the relatively few publications that exist on statistical thinking It very nicely encourages the reader to take an active learning approach through simultaneously promoting pedagogy with knowledge and skills enhancement in statistics Understanding what the subject is for and what it can do are crucial in statistical education by getting the reader to think statistically Mr Graham has provided us with a very readable book that helps to dispel the poor reputation that statistics has acquired over many years Professor Neville Davies Director Royal Statistical Society Centre for Statistical Education Nottingham Trent University Statistics is a key area of the school mathematics curriculum where maths and the real world meet Although potentially a subject where teaching can be motivating and relevant to everyday concerns it is often seen as boring and involving largely mechanical calculations This book will enable teachers and others interested in statistical thinking to become excited and inspired by the big ideas of statistics and in turn teach them enthusiastically learners Designed to heighten awareness of statistical ideas the book explores key themes within statistics using ideas developed by the influential team at The Open University s Centre for Mathematics Education Themes include Measurement Variation Randomness Uncertainty Arranged in an accessible task based format this is an essential text for all secondary maths teachers and students of maths education It is a comprehensive book that will illuminate and inspire interest in the subject based on innovative use of ICT engaging narrative firm research and good practice Developing Thinking in Statistics

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## **Table of Contents Graphing Trends In The Periodic Table Nys Lab Answers**

1. Understanding the eBook Graphing Trends In The Periodic Table Nys Lab Answers
  - The Rise of Digital Reading Graphing Trends In The Periodic Table Nys Lab Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Graphing Trends In The Periodic Table Nys Lab 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 Graphing Trends In The Periodic Table Nys Lab Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Graphing Trends In The Periodic Table Nys Lab Answers
  - Personalized Recommendations
  - Graphing Trends In The Periodic Table Nys Lab Answers User Reviews and Ratings
  - Graphing Trends In The Periodic Table Nys Lab Answers and Bestseller Lists
5. Accessing Graphing Trends In The Periodic Table Nys Lab Answers Free and Paid eBooks
  - Graphing Trends In The Periodic Table Nys Lab Answers Public Domain eBooks
  - Graphing Trends In The Periodic Table Nys Lab Answers eBook Subscription Services
  - Graphing Trends In The Periodic Table Nys Lab Answers Budget-Friendly Options
6. Navigating Graphing Trends In The Periodic Table Nys Lab Answers eBook Formats

- ePub, PDF, MOBI, and More
  - Graphing Trends In The Periodic Table Nys Lab Answers Compatibility with Devices
  - Graphing Trends In The Periodic Table Nys Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Graphing Trends In The Periodic Table Nys Lab Answers
    - Highlighting and Note-Taking Graphing Trends In The Periodic Table Nys Lab Answers
    - Interactive Elements Graphing Trends In The Periodic Table Nys Lab Answers
  8. Staying Engaged with Graphing Trends In The Periodic Table Nys Lab Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Graphing Trends In The Periodic Table Nys Lab Answers
  9. Balancing eBooks and Physical Books Graphing Trends In The Periodic Table Nys Lab Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Graphing Trends In The Periodic Table Nys Lab Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Graphing Trends In The Periodic Table Nys Lab Answers
    - Setting Reading Goals Graphing Trends In The Periodic Table Nys Lab Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Graphing Trends In The Periodic Table Nys Lab Answers
    - Fact-Checking eBook Content of Graphing Trends In The Periodic Table Nys Lab 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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