

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 20). Use the graphs to analyze the trends in these properties and to answer the questions on the back.

| Atomic Radius (pm) | | | | | | | |
|--------------------|-----|-----------------|-----|----------------|-----|----------------|-----|
| Lithium - 3 | 157 | Sodium - 11 | 190 | Potassium - 19 | 243 | Rubidium - 27 | 295 |
| Beryllium - 4 | 112 | Magnesium - 12 | 145 | Calcium - 20 | 194 | Strontium - 28 | 219 |
| Boron - 5 | 87 | Aluminum - 13 | 175 | Gallium - 31 | 136 | Indium - 40 | 156 |
| Carbon - 6 | 67 | Silicon - 14 | 111 | Germanium - 32 | 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 | 119 |

| 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 Periodic Trends Lab Answer Key

Padhraic Smyth



Graphing Periodic Trends Lab Answer Key:

The book delves into Graphing Periodic Trends Lab Answer Key. Graphing Periodic Trends Lab Answer Key is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Graphing Periodic Trends Lab Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Graphing Periodic Trends Lab Answer Key
 - Chapter 2: Essential Elements of Graphing Periodic Trends Lab Answer Key
 - Chapter 3: Graphing Periodic Trends Lab Answer Key in Everyday Life
 - Chapter 4: Graphing Periodic Trends Lab Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Graphing Periodic Trends Lab Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Graphing Periodic Trends Lab Answer Key.

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