

NAME _____

DATE _____

GRAPHING PERIODIC TRENDS

The Periodic Table is arranged according to the Periodic Law. The Periodic Law states that when elements are arranged in order of increasing atomic number, their physical and chemical properties show a periodic pattern.

Define the following terms(starting on page 170):

Atomic radius-

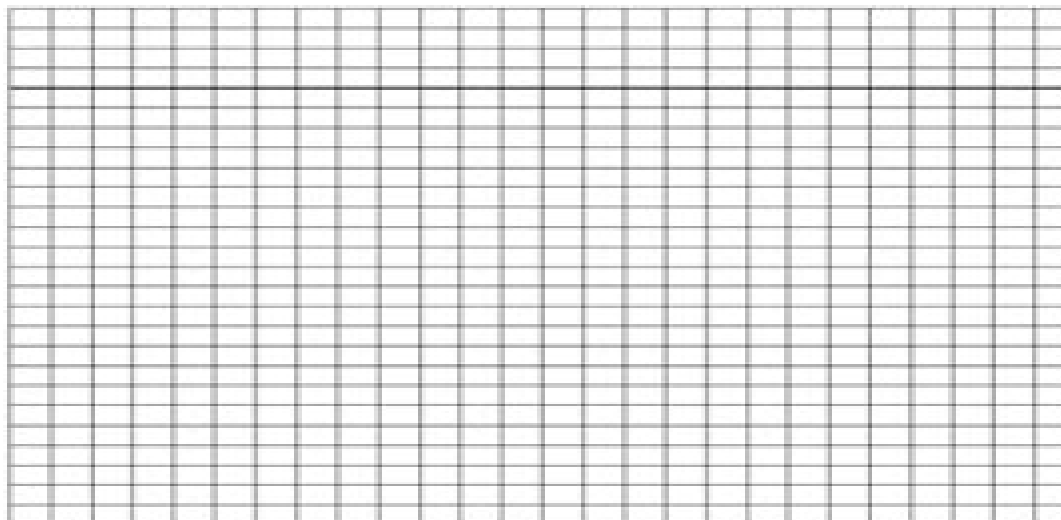
First ionization energy-

Electronegativity-

Graph 1 – Atomic Radius as a function of Atomic Number

- A. Create a graph of the atomic radius as a function of atomic number. Plot atomic number on the X axis and atomic radius on the Y axis. Remember to label the axes!
- B. Use a colored pen, pencil or highlighter to **trace** over the element's period (horizontal row on the periodic table). For example: use GREEN to **trace** for all of the elements in row 1, then use YELLOW to **trace** for all of the elements in row 2, then use ORANGE to **trace** for all the elements in row 3, then use BLUE to **trace** for all the elements in row 4.

Symbol	Atomic Number	Atomic Radius(pm)
H	1	37
He	2	50
Li	3	123
Be	4	89
B	5	80
C	6	77
N	7	70
O	8	66
F	9	64
Ne	10	67
Na	11	157
Mg	12	136
Al	13	125
Si	14	117
P	15	110
S	16	104
Cl	17	99
Ar	18	98
K	19	203
Ca	20	174



1. Describe the trend in atomic radius as the atomic number increases across a period.
2. Describe the trend in atomic radius as the atomic number increases down a group.

Graphing Periodic Trends Worksheet

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Graphing Periodic Trends Worksheet:

Whispering the Techniques of Language: An Psychological Quest through **Graphing Periodic Trends Worksheet**

In a digitally-driven earth where displays reign great and instant connection drowns out the subtleties of language, the profound strategies and emotional nuances hidden within words frequently move unheard. However, nestled within the pages of **Graphing Periodic Trends Worksheet** a charming fictional value blinking with organic emotions, lies an extraordinary quest waiting to be undertaken. Published by an experienced wordsmith, that charming opus invites readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of each and every word. Within the emotional depths with this touching evaluation, we will embark upon a honest exploration of the book is primary subjects, dissect its interesting writing fashion, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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