

# Periodic Trends Practice Worksheet

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

- ① Identify each element as a metal, metalloid, or nonmetal
  - Ⓐ germanium \_\_\_\_\_
  - Ⓑ zinc \_\_\_\_\_
  - Ⓒ phosphorous \_\_\_\_\_
  - Ⓓ lithium \_\_\_\_\_
- ② Which of the two species is larger in each of the following pairs?
  - Ⓐ  $\text{N}^{3-}$  or  $\text{F}^-$  \_\_\_\_\_
  - Ⓑ  $\text{Mg}^{2+}$  or  $\text{Ca}^{2+}$  \_\_\_\_\_
  - Ⓒ  $\text{Fe}^{2+}$  or  $\text{Fe}^{3+}$  \_\_\_\_\_
- ③ Which of the two species is smaller in each of the following pairs?
  - Ⓐ  $\text{K}^+$  or  $\text{Li}^+$  \_\_\_\_\_
  - Ⓑ  $\text{Au}^+$  or  $\text{Au}^{3+}$  \_\_\_\_\_
  - Ⓒ  $\text{P}^{3-}$  or  $\text{N}^{3-}$  \_\_\_\_\_
- ④ What atom has the LARGEST atomic radius?  
\_\_\_\_\_
- ⑤ What atom has the SMALLEST atomic radius?  
\_\_\_\_\_
- ⑥ Which is larger?
  - Ⓐ  $\text{Mg}$  or  $\text{Mg}^{2+}$  \_\_\_\_\_
  - Ⓑ  $\text{I}$  or  $\text{I}^-$  \_\_\_\_\_
  - Ⓒ  $\text{Cl}^-$  or  $\text{Br}^-$  \_\_\_\_\_
  - Ⓓ  $\text{F}^-$  or  $\text{Ne}$  \_\_\_\_\_
  - Ⓔ  $\text{N}^{3-}$  or  $\text{P}^{3-}$  \_\_\_\_\_
- ⑦ Put the following in order of increasing radius:  $\text{Br}^-$   $\text{Se}^{2-}$   $\text{Sr}^{2+}$   $\text{Kr}$   $\text{Rb}^+$
- ⑧ Circle the correct answer.
  - Ⓐ Bromine has a higher / lower ionization energy than Lead
  - Ⓑ Barium has a higher / lower ionization energy than Radon
  - Ⓒ Fluorine has a higher / lower ionization energy than Arsenic
  - Ⓓ Lithium has a higher / lower ionization energy than Cesium
- ⑨ Which of the two species is larger in each of the following pairs?
  - Ⓐ  $\text{Mg}$  or  $\text{Sr}$
  - Ⓑ  $\text{Be}$  or  $\text{N}$
  - Ⓒ  $\text{P}$  or  $\text{Cl}$
  - Ⓓ  $\text{Ni}$  or  $\text{Br}$
- ⑩ Arrange the following in order of increasing electronegativity:  $\text{S}$ ,  $\text{O}$ ,  $\text{Ne}$ ,  $\text{Al}$

# Periodic Trends Practice Problems With Answers

**Charles Henrickson**



## **Periodic Trends Practice Problems With Answers:**

## **Periodic Trends Practice Problems With Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Periodic Trends Practice Problems With Answers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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