Date	Period

Atomic Structure Ws: Electron Configuration and the Periodic Table

1. The first column in the periodic table is known as the Alkali Metal Family.

- a. Write the electron configuration of Hydrogen.
- b. Write the electron configuration of Lithium.
- c. Write the electron configuration of Sodium.
- d. How are their electron configurations similar?
- e. Name the other members of the group.

2. The second column in the periodic table is known as the Alkaline Earth Metal family.

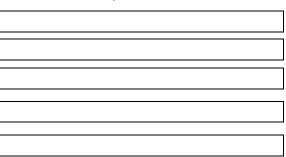
- a. Write the electron configuration of Beryllium.
- b. Write the electron configuration of Magnesium.
- c. Write the electron configuration of Calcium.
- d. How are their electron configurations similar?
- e. Name the other members of the group.

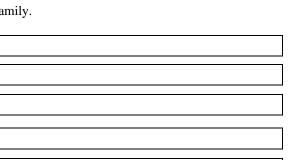
3. The column that begins with Boron is known as the Aluminum Family.

- a. Write the electron configuration of Boron.
- b. Write the electron configuration of Aluminum.
- c. Write the electron configuration of Gallium.
- d. How are their electron configurations similar?
- e. Name the other members of the group.

4. The column that begins with Carbon is known as the Carbon Family.

- a. Write the electron configuration of Carbon.
- b. Write the electron configuration of Silicon
- c. Write the electron configuration of Germanium.
- d. How are their electron configurations similar?
- e. Name the other members of the group.





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- 5. The column that begins with Nitrogen is known as the Nitrogen Family
 - a. Write the electron configuration of Nitrogen.
 - b. Write the electron configuration of Phosphorus.
 - c. Write the electron configuration of Arsenic.
 - d. How are their electron configurations similar?
 - e. Name the other members of the group.
- 6. The column that begins with Oxygen is known as the Oxygen Family.
 - a. Write the electron configuration of Oxygen.
 - b. Write the electron configuration of Sulfur.
 - c. Write the electron configuration of Selenium.
 - d. How are their electron configurations similar?
 - e. Name the other members of the group.
- 7. The column that begins with Fluorine is known as the Halogen Family
 - a. Write the electron configuration of Fluorine
 - b. Write the electron configuration of Chlorine.
 - c. Write the electron configuration of Bromine.
 - d. How are their electron configurations similar?
 - e. Name the other members of the group.
- 8. The final column in the periodic table is known as the Noble Gas family.
 - a. Write the electron configuration of Helium.
 - b. Write the electron configuration of Neon.
 - c. Write the electron configuration of Argon.
 - d. How are their electron configurations similar?
 - e. Name the other members of the group.