

Name _____ 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.

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.