

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**A****Science 10 – Chemistry Assignment #1****Periodic Table**Write the **name** of the element that...

- a. Has an atomic number of 47 \_\_\_\_\_
- b. Has an atomic mass of 40.08 amu \_\_\_\_\_
- c. Is a halogen in the third period \_\_\_\_\_
- d. Is the smallest noble gas \_\_\_\_\_
- e. Has the symbol Sr \_\_\_\_\_

**Elements**

Fill in the table for each atom.

Name	Symbol	Atomic Mass	Protons	Neutrons	Electrons
		79.90 amu			
	Sn				
barium					
					18
			31		

**Bohr-Rutherford Diagrams**

Draw the Bohr-Rutherford diagrams for...

Neon	Potassium	Phosphorus

**Lewis Diagrams**

Draw the Lewis diagrams for...

- a. Silicon                                  c. Rubidium                                  e. Aluminum
- b. Iodine                                      d. Arsenic                                    f. Oxygen

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Ionic Notation

Write each ion in ionic notation.

a. chloride ion \_\_\_\_\_

b. sulfide ion \_\_\_\_\_

c. magnesium ion \_\_\_\_\_

d. cesium ion \_\_\_\_\_

e. phosphide ion \_\_\_\_\_

### Ion Names

Write the name of each ion.

a.  $\text{Ag}^+$  \_\_\_\_\_

b.  $\text{I}^-$  \_\_\_\_\_

c.  $\text{Se}^{2-}$  \_\_\_\_\_

d.  $\text{Be}^{2+}$  \_\_\_\_\_

e.  $\text{Na}^+$  \_\_\_\_\_

f.  $\text{N}^{3-}$  \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

B

## Science 10 – Chemistry Assignment #1

### Periodic Table

Write the **name** of the element that...

- a. Has an atomic number of 87 \_\_\_\_\_
- b. Has an atomic mass of 39.91 amu \_\_\_\_\_
- c. Is an alkali metal in the second period \_\_\_\_\_
- d. Is the smallest halogen gas \_\_\_\_\_
- e. Has the symbol Pb \_\_\_\_\_

### Elements

Fill in the table for each atom.

Name	Symbol	Atomic Mass	Protons	Neutrons	Electrons
		40.08 amu			
	Xe				
platinum					
					22
			68		

### Bohr-Rutherford Diagrams

Draw the Bohr-Rutherford diagrams for...

Carbon	Sodium	Aluminum

### Lewis Diagrams

Draw the Lewis diagrams for...

- a. Lithium
- b. Sulfur
- c. Radium
- d. Phosphorus
- e. Gallium
- f. Bromine

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Ionic Notation

Write each ion in ionic notation.

a. fluoride ion \_\_\_\_\_

b. nitride ion \_\_\_\_\_

c. barium ion \_\_\_\_\_

d. aluminum ion \_\_\_\_\_

e. sulfide ion \_\_\_\_\_

### Ion Names

Write the name of each ion.

a.  $\text{H}^+$  \_\_\_\_\_

b.  $\text{Cl}^-$  \_\_\_\_\_

c.  $\text{Ca}^{2+}$  \_\_\_\_\_

d.  $\text{Mg}^{2+}$  \_\_\_\_\_

e.  $\text{Br}^-$  \_\_\_\_\_

f.  $\text{O}^{2-}$  \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**C****Science 10 – Chemistry Assignment #1****Periodic Table**Write the **name** of the element that...

- a. Has an atomic number of 17 \_\_\_\_\_
- b. Has an atomic mass of 12.01 amu \_\_\_\_\_
- c. Is an alkaline earth metal in the fourth period \_\_\_\_\_
- d. Has 35 protons \_\_\_\_\_
- e. Has the symbol Sg \_\_\_\_\_

**Elements**

Fill in the table for each atom.

Name	Symbol	Atomic Mass	Protons	Neutrons	Electrons
		192.22 amu			
	F				
rubidium					
					84
			42		

**Bohr-Rutherford Diagrams**

Draw the Bohr-Rutherford diagrams for...

Fluorine	Argon	Calcium

**Lewis Diagrams**

Draw the Lewis diagrams for...

- a. Beryllium                                  c. Rubidium                                  e. Gallium
- b. Bromine                                      d. Xenon                                      f. Sulfur

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Ionic Notation

Write each ion in ionic notation.

a. selenide ion \_\_\_\_\_

b. sodium ion \_\_\_\_\_

c. barium ion \_\_\_\_\_

d. phosphide ion \_\_\_\_\_

e. chloride ion \_\_\_\_\_

### Ion Names

Write the name of each ion.

a.  $Zn^{2+}$  \_\_\_\_\_

b.  $Br^-$  \_\_\_\_\_

c.  $Ca^{2+}$  \_\_\_\_\_

d.  $I^-$  \_\_\_\_\_

e.  $N^{3-}$  \_\_\_\_\_

f.  $Al^{3+}$  \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**D****Science 10 – Chemistry Assignment #1****Periodic Table**Write the **name** of the element that...

- a. Has an atomic number of 35 \_\_\_\_\_
- b. Has an atomic mass of 131.29 amu \_\_\_\_\_
- c. Is a noble gas in the fifth period \_\_\_\_\_
- d. Is the smallest atom \_\_\_\_\_
- e. Has the symbol Yb \_\_\_\_\_

**Elements**

Fill in the table for each atom.

Name	Symbol	Atomic Mass	Protons	Neutrons	Electrons
		207.20 amu			
	Au				
silver					
					86
			40		

**Bohr-Rutherford Diagrams**

Draw the Bohr-Rutherford diagrams for...

Helium	Magnesium	Chlorine

**Lewis Diagrams**

Draw the Lewis diagrams for...

- a. Potassium
- b. Selenium
- c. Krypton
- d. Phosphorus
- e. Boron
- f. Astatine

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Ionic Notation

Write each ion in ionic notation.

a. sulfide ion \_\_\_\_\_

b. lithium ion \_\_\_\_\_

c. iodide ion \_\_\_\_\_

d. barium ion \_\_\_\_\_

e. nitride ion \_\_\_\_\_

### Ion Names

Write the name of each ion.

a.  $\text{P}^{3-}$  \_\_\_\_\_

b.  $\text{F}^-$  \_\_\_\_\_

c.  $\text{Ca}^{2+}$  \_\_\_\_\_

d.  $\text{Cd}^{2+}$  \_\_\_\_\_

e.  $\text{Ga}^{3+}$  \_\_\_\_\_

f.  $\text{N}^{3-}$  \_\_\_\_\_