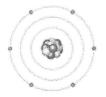


Name	Class Period

## Quiz: Ionic Compounds December 17, 2019

Directions: Choose the letter of the word or words that best answers the question or completes the statement.

1. What ion will be formed by the selenium atom shown below when it has a stable set of valence electrons?



A. Se6+

B. Se2+

C. Se6-

D. Se2-

- 2. Which of the following is the best description of how electrons are transferred in an ionic bond?
  - A. A metal atom loses electrons and a nonmetal atom gains electrons.
  - B. A metal atom gains electrons and a nonmetal atom loses electrons.
  - C. A metal and a nonmetal atom lose electrons.
  - D. A metal and a nonmetal atom gain electrons.
- 3. Zinc phosphide, Zn<sub>3</sub>P<sub>2</sub>, is often used as a rat poison. Phosphorus has 5 valence electrons. How many valence electrons does *each* zinc atom lose?

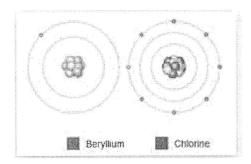
A. 1

B. 2

C. 3

D. 4

4. A user is constructing an ionic bond between beryllium and chlorine and has reached the stage below. What should the user do next?



- a. Transfer an electron from the beryllium atom to the chlorine atom.
- b. Transfer an electron from the chlorine atom to the beryllium atom.
- c. Add another beryllium atom.
- d. Add another chlorine atom.

5. Lithium nitride has the chemical formula L as lithium. What is the formula of rubidium a. RbN b. RbN <sub>3</sub> c. Rb <sub>3</sub> N d. Rb <sub>2</sub> N <sub>3</sub>	i <sub>3</sub> N. Rubidium is in the same chemical family nitride?
6. What type of a bond is found in a piece of pa. metallie b. ionic c. covalent d. diatomic	oure gold?
7. Because electrons move freely in metals, was a brittle b. hard c. dull d. conductors	hich property describes metals?
Directions: For each of the following elements, dra to show the transfer of electrons. Then, write the cl	
8) Sodium + Chlorine	9) Potassium + Iodine
Na Clo	KO 500
Formula: Nacı	Formula: K-1
Name: Sodiou Chloude	Name: Potassium iodide 12
10) Magnesium and Fluorine  Formula: Mgf  Name: Magnesium fluoride	Formula: KO Name: Potassium and Oxygen

12) Aluminum and Nitrogen	13) Aluminum and Oxygen
Abov:	APOSO O
	9A (3) 68
Formula: ALN	Formula: Al2O3
Name: Allminum Oxide	Name: Aluminum ora de 18
14. Write the formulas for the following ioni	c compounds made up of transition elements
a. Iron III Oxide + + + 0	-2 Feg Oz
b. Chromium II Bromide	Br T Clobra
c. Manganese IV Nitride	J-3 Mn N4
15. Write the name of the ionic compounds r	nade up of transition elements
a. Au <sub>2</sub> S <u>Gold (1)</u> Su	Ade
b. Ni <sub>2</sub> O <sub>3</sub>	de 3
c. Sc <sub>2</sub> S <sub>3</sub> Scandigy (1)	) Sulide
EXTRA CREDIT: VS <sub>2</sub>	0
A) WHS 2	Paradian(N) Sulfide
NAMES AND ADDRESS	
J. 4	(31)

5. Lithium nitride has the chemical formula last lithium. What is the formula of rubidium a. RbN b. RbN <sub>3</sub> c. Rb <sub>3</sub> N d. Rb <sub>2</sub> N <sub>3</sub>	Li <sub>3</sub> N. Rubidium is in the same chemical family m nitride?
6. What type of a bond is found in a piece of a. metallie b. ionic c. covalent d. diatomic	pure gold?
7. Because electrons move freely in metals, a. brittle b. hard c. dull d. conductors	which property describes metals?
Directions: For each of the following elements, do to show the transfer of electrons. Then, write the	
8) Sodium + Chlorine	9) Potassium + Iodine
Na Cle	KC . To
Formula: Nacl	Formula:
Name: Sodiou Chloride	Name: Potassium iodide 12
10) Magnesium and Fluorine	11) Potassium and Oxygen
More of a	Ko Oo
Formula: Mafa	Formula: K O
Name: Magusivu Fluoride	Name: Potassium Oxade