

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

### Nomenclature Practice Quiz

- Oxygen forms an ion with a charge of \_\_\_\_\_.
- Which of the following compounds would you expect to be ionic?
  - SF<sub>6</sub>
  - H<sub>2</sub>O
  - CaO
  - NH<sub>3</sub>
- Which compound's name includes the Greek numerical prefixes di- and tri-?
  - Fe<sub>2</sub>O<sub>3</sub>
  - Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>
  - N<sub>2</sub>O<sub>3</sub>
  - Al<sub>2</sub>S<sub>3</sub>
- How many atoms of fluorine are present in a molecule of carbon tetrafluoride?
- What is the formula for the compound formed by calcium ions and chloride ions?
- The correct name for SO is \_\_\_\_\_.
- What is the formula for diphosphorous pentoxide? \_\_\_\_\_
- The formula for aluminum hydroxide is \_\_\_\_\_.
- The charge on the iron ion in the salt Fe<sub>2</sub>O<sub>3</sub> is \_\_\_\_\_.
- The correct name for MgF<sub>2</sub> is \_\_\_\_\_.
- Of the following choices, which one is not an ionic compound?
  - PCl<sub>5</sub>
  - NaCl
  - RbCl
  - PbCl<sub>2</sub>
- What is the chemical formula for aluminum sulfate?
- Name the compound N<sub>2</sub>O<sub>4</sub>.
- The correct name for Al<sub>2</sub>O<sub>3</sub> is \_\_\_\_\_.
- Which of the following shows an ion that will form a covalent bond?
  - Al<sup>-3</sup>
  - O<sup>-2</sup>
  - Na<sup>+2</sup>
  - all of them
- What is the chemical formula for iron(III) oxide?

17. What is the name of the acid with the formula  $\text{H}_2\text{SO}_4$ ?
18. A student finds a bottle of  $\text{HNO}_3$  stored with other highly toxic and corrosive materials. In ancient times, this chemical was called aqua fortis, or “strong water”, because it was used in alchemy to dissolve silver and other metals. What is the name of the compound?
19. Name the compound  $\text{Fe}(\text{NO}_2)_2$ .
20. What is the metallic ion in copper(II) chloride?
21. Using the Stock system, name the compound  $\text{PbO}$ .
22. What is the formula for dinitrogen trioxide?
23. What is the formula for carbon disulfide?
24. Which of the following is not an acid?  
a.  $\text{H}_2\text{SO}_4$   
b.  $\text{HC}_2\text{H}_3\text{O}_2$   
c.  $\text{HBr}$   
d.  $\text{NaOH}$
25. Which of the following is Hydrochloric Acid?  
a.  $\text{HCl}$   
b.  $\text{HCl}_2$   
c.  $\text{HClO}_3$   
d.  $\text{HClO}_4$
26. A compound has the name iodine pentafluoride. What kind of bond is present between the atoms?
27. What is the ratio of aluminum ions to nitrate ions in aluminum nitrate?
28. Which of the following polyatomic ions is not correctly matched to its name?  
a. Ammonium,  $\text{NH}_4^{+1}$   
b. Phosphate,  $\text{PO}_3^{-2}$   
c. Sulfate,  $\text{SO}_4^{-2}$   
d. Nitrite,  $\text{NO}_2^{-1}$