

Competency 7 Worksheet

1. Circle the acid(s):

H_2SO_4 HI $\text{HC}_2\text{H}_3\text{O}_2$ Cs_2O NH_4Cl $\text{Zn}(\text{OH})_2$ HCl

2. Circle the salt(s):

H_2SO_4 HI $\text{HC}_2\text{H}_3\text{O}_2$ Cs_2O NH_4Cl ZnBr_2 HCl

3. Circle the bases(s):

H_2SO_4 KOH $\text{HC}_2\text{H}_3\text{O}_2$ Cs_2O NH_4Cl $\text{Zn}(\text{OH})_2$ HCl

4. Circle the oxide(s):

H_2SO_4 HI $\text{HC}_2\text{H}_3\text{O}_2$ Cs_2O NH_4Cl $\text{Zn}(\text{OH})_2$ CaO

5. Name these binary compounds:

a. HCl

b. CaS

c. SCl_4

d. KI

e. NF_3

f. FeCl_2

g. Al_2S_3

h. Li_3P

i. FeCl_3

j. Mg_3P_2

k. SnBr_2

l. CuBr_2

m. CuCl

n. SnBr_4

o. Fe_2S_3

p. CO

q. H_2O

- r. N_2O
- s. NO_2
- t. P_3O_4
- u. S_2O_3
- v. NH_3
- w. AlN

6. Name these ternary compounds:

- a. NaNO_3
- b. Na_2SO_4
- c. Na_3PO_4
- d. NaOH
- e. Na_2CO_3
- f. $(\text{NH}_4)_2\text{O}$
- g. H_2SO_4
- h. HNO_3
- i. H_3PO_4
- j. $\text{HC}_2\text{H}_3\text{O}_2$
- k. $\text{Sn}(\text{SO}_4)_2$
- l. $\text{Cu}(\text{NO}_3)_2$
- m. $\text{Fe}_3(\text{PO}_4)_2$

7. Name these compounds composed of two polyatomic ions:

- a. NH_4OH
- b. $(\text{NH}_4)_2\text{CO}_3$
- c. $(\text{NH}_4)_3\text{PO}_4$

8. Name these ternary oxy-acids:

- a. HClO
- b. HBrO_2
- c. HFO_3

d. HClO_4

e. H_2SO_3

9. Name these salts of ternary oxy-acids:

a. KBrO

b. LiClO_2

c. NaFO_3

d. $\text{Ca}(\text{BrO}_4)_2$

e. K_3SO_3

10. Name these salts of more than one positive ion:

a. NaHSO_4

b. NH_4KCO_3

c. LiKHP

d. LiKHPO_4

e. $\text{KAl}(\text{SO}_4)_2$

11. Name these compounds:

a. CaNH_4PO_4

b. $\text{NaAl}(\text{SO}_4)_2$

c. KHS

d. N_2S_3

e. CS_2

f. NaI

g. SO_2

h. HOH

i. FeS