

Ionic Compounds: Names and Formulas Worksheet

1. Write the formulas for the following compounds.

- | | |
|--|--|
| <p>(a) magnesium oxide _____</p> <p>(b) sodium fluoride _____</p> <p>(c) aluminum nitride _____</p> <p>(d) potassium sulfide _____</p> <p>(e) lithium iodide _____</p> <p>(f) calcium bromide _____</p> <p>(g) beryllium oxide _____</p> <p>(h) nickel chloride _____</p> <p>(i) magnesium nitride _____</p> <p>(j) aluminum sulfide _____</p> | <p>(k) copper(I) bromide _____</p> <p>(l) tin(II) iodide _____</p> <p>(m) iron(III) chloride _____</p> <p>(n) calcium phosphide _____</p> <p>(o) lead(II) oxide _____</p> <p>(p) lead(IV) fluoride _____</p> <p>(q) tin(IV) bromide _____</p> <p>(r) copper(II) sulfide _____</p> <p>(s) iron(II) oxide _____</p> <p>(t) calcium nitride _____</p> |
|--|--|

2. Write the names for the following compounds.

- | | |
|---|--|
| <p>(a) Li_2O _____</p> <p>(b) AlCl_3 _____</p> <p>(c) MgS _____</p> <p>(d) CaO _____</p> <p>(e) KBr _____</p> <p>(f) BeF _____</p> <p>(g) Na_3N _____</p> <p>(h) Al_2O_3 _____</p> <p>(i) CuCl_2 _____</p> <p>(j) FeBr_3 _____</p> | <p>(k) PbS _____</p> <p>(l) SnO_2 _____</p> <p>(m) Na_2S _____</p> <p>(n) Mg_3P_2 _____</p> <p>(o) NiO _____</p> <p>(p) CuI _____</p> <p>(q) PbCl_4 _____</p> <p>(r) FeP _____</p> <p>(s) CaF_2 _____</p> <p>(t) K_3P _____</p> |
|---|--|

Polyatomic Ions- Names and Formulas

Name: _____

1. NaNO_3 _____

11. Sodium Nitrate _____

2. MgSO_4 _____

12. Ammonium Phosphate _____

3. NH_4SO_4 _____

13. Lead (IV) Hydroxide _____

4. K_3PO_4 _____

14. Iron (III) Carbonate _____

5. Al(OH)_3 _____

15. Magnesium Hydroxide _____

6. $\text{Pb(CO}_3)_2$ _____

16. Lithium Sulphate _____

7. AlPO_4 _____

17. Potassium Sulphite _____

8. NH_4OH _____

18. Sodium Bicarbonate _____

9. KNO_3 _____

19. Copper (I) Carbonate _____

10. $\text{Fe}_3(\text{PO}_4)_2$ _____

20. Aluminum Nitrate _____

Name: _____

Molecular Compounds: Names and Formulas Worksheet

1. Write the formulas for the following compounds:

- | | | | |
|----------------------------|-------|--------------------------|-------|
| a) carbon dioxide | _____ | b) diphosphorus trioxide | _____ |
| c) silicon dioxide | _____ | d) nitrogen monoxide | _____ |
| e) carbon disulfide | _____ | f) chlorine dioxide | _____ |
| g) sulfur trioxide | _____ | h) dinitrogen oxide | _____ |
| i) nitrogen trihydride | _____ | j) carbon monoxide | _____ |
| k) carbon tetrachloride | _____ | l) arsenic tribromide | _____ |
| m) dihydrogen dioxide | _____ | n) silicon carbide | _____ |
| o) carbon tetra hydride | _____ | p) sulfur dioxide | _____ |
| q) phosphorus pentabromide | _____ | | |

2. Write the names for the following compounds:

- | | | | |
|-------------|-------|-------------|-------|
| a) CF_4 | _____ | b) P_2O_5 | _____ |
| c) NH_3 | _____ | d) CH_4 | _____ |
| e) PBr_3 | _____ | f) SO_3 | _____ |
| g) H_2O | _____ | h) SiO_2 | _____ |
| i) CS_2 | _____ | j) PCl_5 | _____ |
| k) N_2O_4 | _____ | l) NO_2 | _____ |
| m) H_2O_2 | _____ | n) SF_4 | _____ |
| o) CO | _____ | p) SiC | _____ |

WRITING FORMULAS FROM NAMES

Name _____

Write the formulas for the following compounds.

1. carbon monoxide _____
2. sodium chloride _____
3. carbon tetrachloride _____
4. magnesium bromide _____
5. aluminum iodide _____
6. hydrogen hydroxide _____
7. iron (II) fluoride _____
8. carbon dioxide _____
9. sodium carbonate _____
10. ammonium sulfide _____
11. iron (II) oxide _____
12. iron (III) oxide _____
13. magnesium sulfate _____
14. sodium phosphate _____
15. dinitrogen pentoxide _____
16. phosphorus trichloride _____
17. aluminum sulfite _____
18. copper (I) carbonate _____
19. potassium hydrogen carbonate _____
20. sulfur trioxide _____

NAMING COMPOUNDS (MIXED)

Name _____

Name the following compounds.

1. NaCl _____
2. MnS _____
3. K₂O _____
4. CuBr₂ _____
5. CuBr _____
6. CO₂ _____
7. PbSO₄ _____
8. Li₂CO₃ _____
9. Na₂CO₃ _____
10. NO₂ _____
11. N₂O₄ _____
12. Ca(OH)₂ _____
13. NH₄Cl _____
14. SO₃ _____
15. AlPO₄ _____
16. CCl₄ _____
17. CaS _____
18. NH₃ _____
19. MgI₂ _____
20. K₃PO₄ _____