

## SIMPLE BINARY IONIC COMPOUNDS

**PART A:** Write the **formulas** for the following simple binary ionic compounds.

1. sodium sulfide  $\text{Na}_2\text{S}$
2. magnesium nitride  $\text{Mg}_3\text{N}_2$
3. potassium oxide  $\text{K}_2\text{O}$
4. barium iodide  $\text{BaI}_2$
5. potassium sulfide  $\text{K}_2\text{S}$
6. silver sulfide  $\text{Ag}_2\text{S}$
7. zinc nitride  $\text{Zn}_3\text{N}_2$
8. barium fluoride  $\text{BaF}_2$
9. lithium nitride  $\text{Li}_3\text{N}$
10. rubidium oxide  $\text{Rb}_2\text{O}$

11. calcium chloride  $\text{CaCl}_2$
12. calcium phosphide  $\text{Ca}_3\text{P}_2$
13. lithium fluoride  $\text{LiF}$
14. magnesium bromide  $\text{MgBr}_2$
15. aluminum oxide  $\text{Al}_2\text{O}_3$
16. zinc oxide  $\text{ZnO}$
17. aluminum iodide  $\text{AlI}_3$
18. potassium phosphide  $\text{K}_3\text{P}$
19. barium sulfide  $\text{BaS}$
20. scandium phosphide  $\text{ScP}$

**PART B:** Write the **names** for the following simple binary ionic compounds.

1.  $\text{ZnI}_2$  Zinc iodide
2.  $\text{MgBr}_2$  Magnesium bromide
3.  $\text{Na}_3\text{N}$  Sodium nitride
4.  $\text{BaO}$  Barium oxide
5.  $\text{Na}_2\text{Si}$  Sodium silicide
6.  $\text{Zn}_3\text{N}_2$  Zinc nitride
7.  $\text{Al}_2\text{O}_3$  Aluminum oxide
8.  $\text{KBr}$  Potassium bromide
9.  $\text{Ru}_3\text{N}_4$  Ruthenium nitride
10.  $\text{HfO}_2$  Hafnium oxide

11.  $\text{CaO}$  Calcium oxide
12.  $\text{KF}$  Potassium fluoride
13.  $\text{Li}_3\text{P}$  Lithium phosphide
14.  $\text{SrS}$  Strontium sulfide
15.  $\text{ZnCl}_2$  Zinc chloride
16.  $\text{K}_2\text{O}$  Potassium oxide
17.  $\text{KCl}$  Potassium chloride
18.  $\text{NaI}$  Sodium iodide
19.  $\text{La}_2\text{O}_3$  Lanthanum oxide
20.  $\text{Cs}_2\text{S}$  Cesium sulfide

# Simple Binary Ionic Compounds Answer Key

**Steven S. Zumdahl**



## Simple Binary Ionic Compounds Answer Key:

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