

Use with textbook pages 184–197.

Names and formulas of compounds

Match each Chemical Name on the left with the correct Chemical Formula on the right.

Chemical Name	Chemical Formula
1. _____ tin(II) chlorate	A. SCl
2. _____ sulphur dichloride	B. S ₂ Cl
3. _____ strontium perchlorate	C. SCl ₂
	D. SnClO
	E. Sn(ClO ₂) ₂
	F. Sn(ClO ₃) ₂
	G. Sn(ClO ₄) ₂
	H. Sr(ClO ₃) ₂
	I. Sr(ClO ₄) ₂

4. Which of the following is a covalent compound?
- A.** SrO **C.** SnO₂
B. SeO₂ **D.** Sc₂O₃
5. In which of the following do covalent bonds hold the atoms together?
- A.** silver
B. calcium carbonate
C. silicon tetrafluoride
D. magnesium bromide
6. What is the total number of atoms that make up iodine pentachloride?
- A.** 2 **C.** 5
B. 4 **D.** 6
7. Which of the following occurs when carbon forms a compound with oxygen?
- A.** oxygen and carbon share electrons
B. both oxygen and carbon lose electrons
C. oxygen gains electrons, while carbon loses electrons
D. carbon gains electrons, while oxygen loses electrons

8. In the chemical reaction $\text{CuO} + \text{CO}_2 \rightarrow \text{CuCO}_3$, which of the following are ionic compounds?

I.	CO ₂
II.	CuO
III.	CuCO ₃

- A.** I and II only **C.** II and III only
B. I and III only **D.** I, II, and III
9. Which of the following is the formula for the compound formed by ammonium and dichromate?
- A.** NH₄Cr₂O₇
B. (NH₄)₂CrO₄
C. NH₄(Cr₂O₇)₂
D. (NH₄)₂Cr₂O₇
10. In which of the following compounds does manganese have the highest ion charge?
- A.** MnO₃ **C.** MnSO₃
B. MnBr₂ **D.** Mn(OH)₄
11. In which of the following compounds is the ion charge on copper the same?

I.	Cu ₂ O
II.	CuCl ₂
III.	CuCO ₃

- A.** I and II only **C.** II and III only
B. I and III only **D.** I, II, and III
12. In the name arsenic(III) chloride, what does the Roman numeral reveal about arsenic?
- A.** it has an ion charge of 3–
B. it has an ion charge of 3+
C. it has gained three electrons
D. it can form three positive ions