UNIT EIGHT: CHEMICAL NAMES & FORMULAS

Learning Targets	Textbook Section:
Explain how to determine the charges of monatomic ions.	9.1
Explain how polyatomic ions differ from and are similar to monatomic ions.	9.1
Apply the rules for naming and writing formulas for binary <i>ionic</i> compounds.	9.2/9.3
Apply the rules for naming and writing formulas for <i>ionic</i> compounds with polyatomic ions.	9.2/9.3
Apply the rules for naming and writing formulas for binary <i>molecular</i> compounds.	9.3/9.3

Suggested Reading:

Chapter 9:

Section 9.1 (pages 264-270)

Section 9.2 (pages 271-279)

Section 9.3 (pages 280-283)

End of Chapter Practice:

57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76

lon	Name	lon	Name
NH ₄ ⁺	ammonium	CO ₃ ²⁻	carbonate
NO ₂ - NO ₃ - SO ₃ 2-	nitrite nitrate sulfite	HCO ₃ -	hydrogen carbonate (bicarbonate is a widely used common name)
SO_3^{2-}	sulfate	ClO-	hypochlorite
		ClO ₂ -	chlorite
HSO ₄ ⁻	hydrogen sulfate (bisulfate is a widely	ClO ₃ -	chlorate
	used common name)	ClO ₄ -	perchlorate
OH-	hydroxide	C ₂ H ₃ O ₂ -	acetate
CN-	cyanide	MnO ₄ -	permanganate
PO ₄ 3-	phosphate	Cr ₂ O ₇ ²⁻	dichromate
HPO ₄ ²⁻	hydrogen phosphate	CrO ₄ ²⁻	chromate
H ₂ PO ₄	dihydrogen phosphate	O ₂ ²⁻	peroxide