

Please note that the answers to the questions in blue are in the back of the text. Check your answers to these questions after you do the problems.

Summer Assignment:**Chapter 1 – Chemical Foundations**

p32 #24, 28, 31ab, 32ab, 33ab, 34ab, 38ab, 40, 44, 52, 62, 66, 70, 80, 83a, 91, 93

Chapter 2: Atoms, Molecules, and Ions

p72 #18, 22, 42, 43ab, 48, 58bc, 60bc, 62ab, 64a-f, 66a-f, 86, 92

FIRST DAY QUIZ

Learn the names, formulas, and charges of the frequently used polyatomic ions.

NH_4^+	ammonium	CrO_4^{2-}	chromate
SO_4^{2-}	sulfate	$\text{Cr}_2\text{O}_7^{2-}$	dichromate
SO_3^{2-}	sulfite	MnO_4^-	permanganate
NO_3^-	nitrate	CN^-	cyanide
NO_2^-	nitrite	OH^-	hydroxide
PO_4^{3-}	phosphate	$(\text{C}_2\text{H}_3\text{O}_2^-)\text{CH}_3\text{COO}^-$	acetate
CO_3^{2-}	carbonate	ClO_3^-	chlorate
HCO_3^-	bicarbonate (or hydrogen carbonate)	ClO_4^-	perchlorate
$\text{C}_2\text{O}_4^{2-}$	oxalate	SCN^-	thiocyanate

Learn the diatomic elements (HON-17)

QUIZ - Names, Formulas, Charges

QUIZ - Chapters 1 and 2

Chapter 3: Stoichiometry

p117 #20, 27, 31, 34, 39, 41, 53, 60, 63, 68ab, 69, 71, 75, 80, 81, 87, 89, 95, 97, 98, 99, 103

QUIZ - Stoichiometry

Chapter 4: Types of Chemical Reactions and Solution Stoichiometry

p171 # 9b-d, 18, 19, 21a, 23a, 29a, 36, 37, 43, 49, 53, 57, 60ab, 65, 67a-e, 71, 73ab, 75ab, 79

Problem Set – Chapter 3 and 4

TEST – CHAPTERS 1-4

