

Chemistry Unit 4 Outline: The Mole and Chemical Composition

Chapter 7: The Mole and Chemical Composition

(Homework and Notebook Check = 20% of the Unit, Lab = 40% of the Unit, Chapter Quiz = 40% of the Unit)

Classes	Topics	Suggested Reading	✓	Assignments	✓
1	Mole, Avogadro's Number, Molar Mass, Converting between Mass, Moles, and Number of Particles using Molar Mass and Avogadro's Number, Calculating Average Atomic Mass	7.1 Avogadro's Number and Molar Conversions (pg. 224 – 233) 7.2 Relative Atomic Mass and Chemical Formulas (pg. 234 – 233)		pg. 228 #1 to 4 (Practice) pg. 229 #1 to 5 (Practice) pg. 231 #1 to 4 (Practice) pg. 232 #1 to 3 (Practice) pg. 233 #1 to 13 – (Pick 8) pg. 239–240 #1 to 4 (Practice) pg. 236 #1 and 2 (Practice) pg. 240 #1, 3 to 12, 14 to 16	
2	Percentage Composition, Empirical Formula, Molecular Formula, Calculating Percentage Composition from Chemical Formulas, Determining Empirical and Molecular Formulas from Percentage Composition and Molar Mass	7.3 Formulas and Percentage Composition (pg. 241 – 248)		pg. 243 #1 to 4 (Practice) pg. 245 #1 to 3 (Practice) pg. 248 #1 to 5 (Practice) pg. 248 #1 to 10 – (Pick 8)	
3	Lab #4: Percentage Composition of Hydrates (A and G Blocks: December 7, Tuesday) (F Block: December 6, Monday)	Lab #4 Procedure		Lab #4 Report Due (December 13, Monday)	
4	Chapter 7 Review	Chapter 7 Practice Quiz		pg. 251–254 #19 to 66 (odd) - Optional	
5	Chapter 7 Quiz (A, F and G Blocks: December 10, Friday)				