

## Honors Chemistry Unit 5: Stoichiometry

**Note:** All video notes will be assigned through EDpuzzle. Points will be awarded for copying down the notes into your notebook and for answering questions correctly on EDpuzzle. Students who do not complete the video notes prior to class will have to take them during class and will receive 50% credit. All video notes assigned before lab dates must be completed in order to participate in labs.

Week	Date	Classwork	Homework	Textbook
Q3 week 1	1/9	Introduction to Stoichiometry Worksheet	VN #1 Stoichiometry 1	12.1 - 12.2
	1/10	Mole Ratio POGIL	VN #2 Stoichiometry 2	12.3
	1/11	Txt Bk Pg 379 #61 - 65, 69 - 71	Mole Rocket Pre-Lab	
	1/12	Mole Rocket Lab (due 1/17)	Mole Rocket Lab	
	1/13	Stoichiometry Relay	Pg 877 # 1, 4, 5, 8, 10, 11	12.1 - 12.3
Week 2	1/17	Stoichiometry Quiz Limiting Reactants Phet Activity	VN #3 Limiting Reactants	12.4
	1/18 CP	Limiting Reactant WS	VN #4 Percent Yield	
	1/19	Percent Yield Lab (due 1/20)	Percent Yield Lab	
	1/20	Review	Objectives and Notebook	12
Week 3	1/23	Unit 5 Notebook Check Unit 5 Test	TBA	12

### Objectives:

1. I can interpret an equation in terms of moles, particles, and mass.
2. I can construct mole ratios from balanced chemical equations
3. I can use mole ratios in chemical formulas to determine the number of atoms in a quantity of a chemical compound.
4. I can use dimensional analysis and stoichiometric ratios to calculate mole to mole, mole to mass, mass to mole, and mass to mass problems.
5. I know the definition of stoichiometry, limiting reactant, and excess reactant.
6. I know how to determine which reactant is limiting and which is in excess.
7. I can calculate the maximum amount of product and the mass of excess reactant in a limiting reactant problem.
8. I know the definitions of theoretical yield, actual yield, and percent yield.
9. I can calculate the theoretical yield, and percent yield for a given chemical reaction using experimental data.
10. I can calculate the theoretical yield, and percent yield for a given chemical reaction using experimental data that includes a limiting reactant.