

Krug Chemistry – Deep Run Daily Planning Guide

Date of Lesson: Q3 Day 12 – Unit 8 Test

Topic /Big Questions: (Question Stems & Question Creation Chart)	
<ul style="list-style-type: none"> • What is a chemistry mole? • How do chemists convert units into moles? • How many (atoms, liters, or grams) are in a mole? • How are mole ratios used in balanced chemical equations? • How can a chemist identify the limiting reactant and excess reactant after a reaction? • What is the mass of the theoretical yield? • How much excess reactant is leftover? 	
State SOL CH.4	Unpacking the Standards (Video explanation shown at 3:18) CH.4 The student will investigate and understand that molar relationships compare and predict chemical quantities. Key ideas include a) Avogadro's principle is the basis for molar relationships; and b) stoichiometry mathematically describes quantities in chemical composition and in chemical reactions
Visible Learning (For the three items with asterisks*, think from a student perspective. Use simple language)	
*What am I learning today? Dimensional Analysis, One Step Stoichiometry, Two Steps Stoichiometry, Mole Ratios, Limiting Reactant, Excess Reactant, Theoretical Yield, Percent Yield	
*Why is it important? In order for chemical equations to be useful, there needs to be a way to measure the quantities of reactants and products. Stoichiometry involves quantitative relationships in a balanced equation which are based on mole ratios.	
*How will I know I've learned it? I will recognize the pattern in the dimensional analysis equation in order to convert between units of moles, liters, grams, atoms, and molecules. I will use dimensional analysis to determine the limiting reactant. I will use dimensional analysis to determine the amount of excess reactant. I will calculate the percent yield of the desired product.	
Differentiation strategies: Unit 8 Test Review Unit 8 Test	
Accommodations and/or modifications are being met for students with IEP's/504's. frequent checks for understanding; materials available on Schoology; small group testing and extended time	

Daily Plan/Sequence of Instruction:

Teacher will answer last minute questions from the Unit 8 Test Review, which is due by the beginning of class.
Teacher will offer a morning session test review for 45 minutes before school. (Open to all students – CP and Honors).
Teacher will do a short review session at the beginning of each class (15 minutes). Students will use the rest of class time to complete the test.

Assessments (List all [formative](#)/[summative](#) assessments used to check for understanding during this lesson. Summative assessments may occur during a different class period.):

Unit 8 Test Review – (summative) due at the beginning of class

Unit 8 Test – (summative) due by the end of class

After assessing today's lesson are you and your students comfortable moving forward with your next objective?

Yes - students have scored 80% or higher on the Unit 8 Test

No, remediation required to proceed – students, who fail the unit test, may visit during One Lunch to do test corrections in order to earn a 65% passing score.

Teacher reflection: Small group testing must be requested at least two days in advance.