

Stage 1 Desired Results

ESTABLISHED GOALS (CCSS) RST.11-12.1-3 RST.11-12.4-6 RST.11-12.7-9 WHST.11-12.2a-e RL.11-12.1,2,3,4,7	<i>Transfer</i>	
	<i>Students will be able to independently use their learning to...</i> Perform mathematical calculations necessary for success in chemistry	
	<i>Meaning</i>	
	UNDERSTANDINGS <i>Students will understand that...</i> DA allows students to convert units and solve word problems in one single equation.	ESSENTIAL QUESTIONS: How do I use DA to answer a wide variety of chemistry questions? What are the uses of scientific notation and significant figures?
	<i>Acquisition</i>	
<i>Students will know...</i> DA Scientific Notation Significant Figures	<i>Students will be skilled at...</i> Using DA Writing numbers using scientific notation and significant figures	

Stage 2 - Evidence

Evaluative Criteria	Assessment Evidence				
PERFORMANCE TASKS	CURRICULUM EMBEDDED PERFORMANCE ASSESSMENT (PERFORMANCE TASKS): Students will use measured data to convert English units to metric units Students will complete a quiz that includes conversions using both metric and arbitrary units. Students will complete a lab that requires students to design data charts and graphs using proper scientific units, and draw conclusions based on their data.				
	OTHER EVIDENCE: Daily assignments. Two lab write ups Exam Review Exam				
CLAIMS	LA M	<u>CLAIM 1</u>	CLAIM 2	CLAIM 3	CLAIM 4
		<u>CLAIM 1</u>	CLAIM 2	CLAIM 3	CLAIM 4
DEPTH OF KNOWLEDGE LEVELS		<u>DOK 1</u>	<u>DOK2</u>	<u>DOK 3</u>	DOK4

	ALD 1	ALD 2	ALD 3	ALD 4
ACHIEVEMENT LEVEL DESCRIPTORS				
Stage 3 – Learning Plan				
<i>Summary of Key Learning Events and Instruction</i>	<ul style="list-style-type: none"> - Take notes on math necessary for chemistry <ul style="list-style-type: none"> o Scientific notation o Significant figures o Dimensional analysis - Complete labs <ul style="list-style-type: none"> o Dimensional analysis between metric and English units o Graphically determining the conversion between mL and ounces, and grams and ounces o Quantitative analysis of sodium polyacrylate absorbency in water - Complete homework <ul style="list-style-type: none"> o Scientific notation o Sig figs o Dimensional analysis - White board practice to show understanding - Review and final practice - Exam on chemistry math 			