

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>	
	<p><i>Students will be able to independently use their learning to...</i></p> <p>Use the periodic chart to identify metals, non-metals, and metalloids Use the periodic chart to predict charge, electronegativity, size, valence electrons, etc.</p>	
	<i>Meaning</i>	
	<p>UNDERSTANDINGS <i>Students will understand that...</i> Based on group and period number you can predict charge, electronegativity, size, valence electrons, metallic character</p>	<p>ESSENTIAL QUESTIONS: Why are elements arranged by period and group? What can location on the periodic chart tell us about elements?</p>
<i>Acquisition</i>		
<p><i>Students will know...</i></p> <p>Charge, electronegativity, ionization energy, size, ionic, covalent bonds</p>	<p><i>Students will be skilled at...</i></p> <p>Using the periodic chart to determine charge, electronegativity, size, valence electrons, etc. Translating knowledge about location on the periodic chart to physical and chemical properties in the laboratory.</p>	

Stage 2 - Evidence

Evaluative Criteria	Assessment Evidence
PERFORMANCE TASKS	<p>CURRICULUM EMBEDDED PERFORMANCE ASSESSMENT (PERFORMANCE TASKS):</p> <p>End of Unit exam that allows students to calculate moles, and predict properties based on the location of the periodic chart. Lab reports that involve construction of graphs, data charts, and data analysis. Additionally, the labs in this unit require students to predict real word observations from pre-lab analysis of the periodic chart.</p>
	<p>OTHER EVIDENCE:</p> <p>Daily assignments. Two lab write ups Exam Review Exam</p>

CLAIMS	L A M	<u>CLAIM 1</u>	<u>CLAIM 2</u>	<u>CLAIM 3</u>	<u>CLAIM 4</u>
		<u>CLAIM 1</u>	<u>CLAIM 2</u>	<u>CLAIM 3</u>	<u>CLAIM 4</u>
DEPTH OF KNOWLEDGE LEVELS		<u>DOK 1</u>	<u>DOK2</u>	<u>DOK 3</u>	<u>DOK4</u>
ACHIEVEMENT LEVEL DESCRIPTORS		<u>ALD 1</u>	<u>ALD 2</u>	<u>ALD 3</u>	<u>ALD 4</u>
Stage 3 – Learning Plan					
<i>Summary of Key Learning Events and Instruction</i>		<ul style="list-style-type: none"> - Take notes on Periodic Law <ul style="list-style-type: none"> o Logic behind the arrangement of the periodic chart into periods and groups o Use electron configuration to predict location on the periodic chart o How to use the periodic chart to predict properties, electron configuration, and number of valence electrons o Define electronegativity, ionization energy, electron affinity, atomic size, metallic character - Complete labs <ul style="list-style-type: none"> o Flame test to identify metals o Reactivity of halides - Complete homework <ul style="list-style-type: none"> o Periodic law practice o Periodic trends practice - White board practice to check understanding - Review and final practice - Exam on periodic law 			