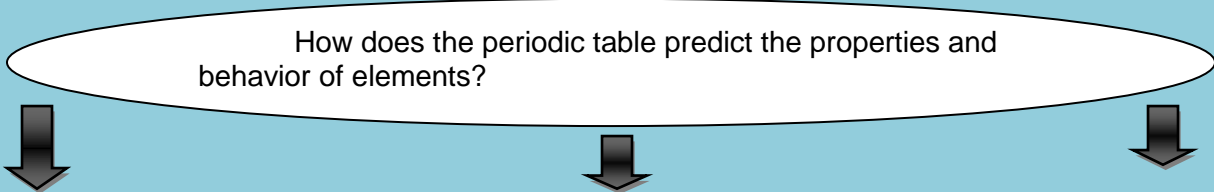


COURSE CODE: 2003350		COURSE NAME: <i>Honors Chemistry</i>	
UNIT TITLE: PERIODICITY		UNIT ESSENTIAL QUESTION:	
SEMESTER: 1	Grading Period: 2	 <p>How does the periodic table predict the properties and behavior of elements?</p>	
CONCEPT		CONCEPT	
<p style="text-align: center;"><u>Periodic Law</u></p> <p>Recognize the organizing principles for the periodic table. Identify members (elements) of a family according to their chemical and physical properties.</p>		<p style="text-align: center;"><u>Periodic Trends</u></p> <p>Describe periodic trends (ionization energy, atomic radius, electron affinity) as they relate to electron configuration. Suggested Extended Thinking Strategy: Deductive Reasoning</p>	
STANDARD(S)		STANDARD(S)	
SC.912.P.8.5		SC.912.P.8.5	
LESSON ESSENTIAL QUESTION		LESSON ESSENTIAL QUESTION	
<p>How was the periodic table first developed and what changes to the periodic table have occurred over time?</p> <p>What can we learn about an element based on its position in the periodic table?</p> <p>How does electron configuration relate to periodic properties and the groups of the periodic table?</p>		<p>How do periodic trends relate to the electron structure of an element?</p> <p>What is the relationship between atomic radius, ionization energy and electron affinity?</p>	

VOCABULARY	VOCABULARY	VOCABULARY
<p>Periodic table, periodic law, alkali metals, alkaline earth metals, halogens, chalcogens, lanthanide/actinide series, metalloids, noble gases, transition metals, period, Mendeleev, Moseley, periodic groups</p>	<p>atomic radius, effective nuclear charge, electron affinity, ionization energy, electronegativity, periodic law, periodic trends</p>	
RESOURCES		
<p>Periodic Table worksheets and activities: http://www.nclark.net/PeriodicTable.html Element Brochure: http://www.nclark.net/ElementBrochure.html Periodic Table trends: http://www.teachersdomain.org/resource/Isps07.sci.phys.matter.graphperiodic/ Alien Periodic Table Activity Element Project Periodic Trends Straw Lab See Invitations to Science Inquiry Book for additional resources and lab suggestions. Smart board presentations GIZMO</p>		
ADDITIONAL INFORMATION		
<p>Mendeleev Lab: http://www.nclark.net/MendeleevLab.htm Pearson Chemistry Textbook program and ancillary materials and resource attachments, the Internet, Unitedstreaming, Khan Academy, and classroom models, downloaded educational videos. Discovery Education Khan Academy You tube videos</p>		