

Chemistry Lesson Plan

Topic	Structure and Properties of Matter
Lesson Title	Periodic Table
Lesson Number	7d
Next Generation Science Standards:	<p>HS-PS1-1. Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.</p> <p>HS-PS1-2. Construct and revise an explanation for the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties.</p>
Learning objectives:	<ul style="list-style-type: none"> • Explain how ions are formed • Use the periodic table to determine ionic trends.
“I can” statement:	<ul style="list-style-type: none"> • I can explain how ions form and use the periodic table to predict what type of ion an element will form.
Prior Knowledge:	
<ul style="list-style-type: none"> • Atomic and mass numbers • Arrangement of the periodic table into groups. • Obtaining total numbers of electrons and valence electrons 	
Vocabulary:	
Atomic number, atomic mass, property, groups, metal, non-metal, metalloid, valence electrons, periods, ion, cation, anion, valency	
Summary of Activities:	
<ol style="list-style-type: none"> 1. Distribute and complete bell ringer activity. 2. Discuss guided notes and slideshow, with students. 3. Complete the Vocabulary worksheet and/or doodle notes activity (if time allows) 4. Exit quiz 	
Additional Resources:	
YouTube clips on:	
<ul style="list-style-type: none"> • Ions 	
Homework:	
Homework task	
Assessment:	
<ul style="list-style-type: none"> • Bell work • Exit quiz • End of unit review 	