

RCS High School Science Unit Plans

Subject: Chemistry

Unit: 5 The Mole

of Days : 8-10

Essential Standards : **2.2**

Clarifying Objective: 2.2.4, **2.2.5**

<p>Big Ideas in NOUNS and ADJECTIVES (Vocabulary) Molecular formula Empirical formula Mole Particle Molar Mass Molecular Weight Percent composition Hydrate Conversion</p>	<p>Real World Performance in VERBS</p>
<p>Understanding(s):</p>	<p>Essential Questions/I Can Statements:</p> <ul style="list-style-type: none"> • I Can Calculate empirical formula from mass or percent using experimental data. • I Can Calculate molecular formula from empirical formula using molecular weight. • I Can Determine percentage composition by mass of a given compound. • I Can Perform calculations based on percent composition. • I Can Determine the composition of hydrates using experimental data. • I Can convert between given moles, particles, mass, or volume and ending with moles, particles, mass, or volume of a desired substance)
<p>Performance Task Ideas/Activities: Particles in your name % Water in a Hydrate Particles in Samples</p>	<p>Websites: <u>Chemistry: Atomic Stoichiometry Part 1</u> http://www.youtube.com/watch?v=OH5q9yBaY3c&feature=channel <u>Chemistry: Atomic Stoichiometry Part 2</u> http://www.youtube.com/watch?v=OH5q9yBaY3c&context=C4586804ADvjVQa1PpcFN8WZfihfCQQVEv-5OkwzePKP78fotU9MQ=</p>
<p>Literacy Shift Ideas: (Reading/writing)</p>	<p>21st Century Themes</p> <ul style="list-style-type: none"> ○ Global Awareness ○ Financial, Economic, Business & Entrepreneurial Literacy ○ Civic Literacy ○ Health Literacy ○ Environmental Literacy

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Assessments	Additional Info:
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