

## Chemistry II Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
	<b>Chemical Dominoes</b> <ul style="list-style-type: none"> <li>• Systems</li> <li>• Energy change</li> <li>• Conservation of mass</li> <li>• Stoichiometry to determine reactants &amp; products</li> <li>• Circuits</li> <li>• Reactivity of metals</li> <li>• Electromagnetic radiation and production of light</li> <li>• Spontaneous reaction</li> </ul>	HS-ETS1-2 HS-PS1-1 HS-PS1-4 HS-PS1-5 HS-PS1-7 HS-PS2-6 HS-PS3-2 HS-PS4-1  Design a toy that consists of a series of chemical and/or physical changes that result in the lighting of a Light-Emitting Diode (LED)	How does energy change throughout a system?
	<b>Cookin' Chem</b> <ul style="list-style-type: none"> <li>• Law of Conservation of Mass</li> <li>• Mole concept</li> <li>• Specific heat capacity</li> <li>• Energy of phase changes</li> <li>• Denaturation</li> </ul>	HS-PS1-4 HS-PS1-5 HS-PS1-7 HS-PS2-6 HS-PS3-4  Students create a segment of a television cooking show and explain the chemistry behind the cooking.	How is chemistry involved in cooking?
	<b>CSI Chemistry</b>	HS-PS1-1	How is chemistry

	<ul style="list-style-type: none"> <li>● Periodic table</li> <li>● Chemical and physical properties</li> <li>● Intensive and extensive properties</li> <li>● Density</li> <li>● Chemiluminescence</li> <li>● Atomic states</li> <li>● Qualitative analysis</li> <li>● Accuracy and precision</li> <li>● Chromatography</li> <li>● R<sub>f</sub> values for substances</li> </ul>	<p>HS-PS1-2  HS-PS1-3  HS-PS4-1  HS-PS4-2  ETS1-2</p> <p>Create a crime scene and prepare evidence that requires forensic chemistry techniques in order to solve the crime.</p>	<p>involved in crime scene investigations?</p>
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