

# Chemistry Lesson Plan

<b>Topic</b>	Structure and Properties of Matter
<b>Lesson Title</b>	Isotopes
<b>Lesson Number</b>	1-5
<b>Next Generation Science Standards:</b>	<b>HS-PS1-1.</b> 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.
<b>Learning objectives:</b>	<ul style="list-style-type: none"> <li>Describe what isotopes are and how they form.</li> <li>Outline the uses of isotopes.</li> </ul>
<b>"I can" statement:</b>	<ul style="list-style-type: none"> <li>I can describe what an isotope is, how they form and their uses in industry.</li> </ul>
<b>Prior Knowledge:</b>	
<ul style="list-style-type: none"> <li>The structure of the atom</li> <li>Chemical notation</li> <li>Obtaining information from the periodic table</li> </ul>	
<b>Vocabulary:</b>	
Isotope, protium, deuterium, tritium, stable isotope, radioisotope, parent isotope, daughter isotope, medical isotope	
<b>Summary of Activities:</b>	
<ol style="list-style-type: none"> <li>Distribute and complete bell ringer activity.</li> <li>Discuss guided notes and slideshow, with students.</li> <li>Complete the Vocabulary worksheet and/or doodle notes activity,</li> <li>Exit quiz</li> </ol>	
<b>Additional Resources:</b>	
<b>YouTube clips on:</b>	
<ul style="list-style-type: none"> <li>What are isotopes?</li> <li>What are radioisotopes?</li> <li>Examples of isotopes</li> <li>Uses of isotopes</li> </ul>	
<b>Homework:</b>	
Homework task	
<b>Assessment:</b>	
<ul style="list-style-type: none"> <li>Bell work</li> <li>Exit quiz</li> <li>End of unit review</li> </ul>	