

# Chemistry Lesson Plan

<b>Topic</b>	Structure and Properties of Matter
<b>Lesson Title</b>	Models of the Atom
<b>Lesson Number</b>	3b
<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 the Rutherford, Bohr and Schrödinger model of the atom, linking it to the scientist which made the discovery.</li> <li>Identify the shortcomings of each atomic model and how the subsequent model further developed our understanding.</li> </ul>
<b>"I can" statement:</b>	<ul style="list-style-type: none"> <li>I can outline the different models of the atom, their shortcomings and how each model contributed to today's atomic model.</li> </ul>
<b>Prior Knowledge:</b>	
<ul style="list-style-type: none"> <li>Basic structure of the atom</li> </ul>	
<b>Vocabulary:</b>	
isotope, neutron, proton, electron, plum pudding model, alpha particle, planetary quantum model, electron cloud model, energy level, photon, quarks, nuclear model	
<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 (continuation from previous lesson).</li> <li>Doodle notes</li> <li>Exit quiz</li> </ol>	
<b>Additional Resources:</b>	
<ul style="list-style-type: none"> <li>Models of the atom YouTube clip</li> <li>Rutherford's model of the atom YouTube clip</li> <li>Bohr model of the atom</li> </ul>	
<b>Homework:</b>	
Homework task	
<b>Assessment:</b>	
<ul style="list-style-type: none"> <li>Bell work</li> <li>Assignment/Lab project</li> <li>Exit quiz</li> <li>End of unit review</li> </ul>	

