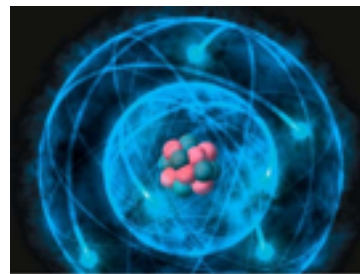


Development of the Atomic Model Chemistry Paper

Dalton, Thompson, Bohr and Rutherford all improved upon or understanding of the atom through their experiments. Without their work our understanding of how the universe works would be much further behind and the world as we know it would be drastically different.



Your job is to describe the different experiments that these scientists did, what they discovered and explain how they contributed to our modern understanding of the atom. Use the rubric to check off the different criteria you will need in your paper.

<p>4 / 100 – Distinguished <i>Accomplishes all of the Proficient criteria as well as all of the Distinguished criteria.</i></p> <p>3.67 / 95 – Exceeding <i>Must accomplish all of the Proficient criteria as well as at least 3 of the Distinguished criteria.</i></p> <p>3.33 / 90 – Advanced <i>Must accomplish all of the Proficient criteria as well as at least 2 of the Distinguished criteria.</i></p>	<ul style="list-style-type: none"><input type="checkbox"/> Student explains how Daltons theory of the atom applies to later atomic models.<input type="checkbox"/> Student identifies Bohr’s orbitals and electron behavior.<input type="checkbox"/> Student uses the experiments to explain changes and/ or refinements of the atomic model.<input type="checkbox"/> Student includes a self generated diagram and explanation of at least two of the experiments described in the sections that are loosely based off diagrams in the book or on the web but are not exact replicas.<input type="checkbox"/> Student uses information from at least two additional resources found from books other than the text book or from the internet, and sites them correctly using MLA format.<input type="checkbox"/> Student compares and contrasts information from the text with information found from other sources.<input type="checkbox"/> No noticeable standard English conventions mistakes.
<p>3 / 85 – Proficient <i>Must accomplish all of the Proficient criteria.</i></p>	<ul style="list-style-type: none"><input type="checkbox"/> Student states Daltons Atomic Theory<input type="checkbox"/> Student identifies and describes Thompsons Plum Pudding Model.<input type="checkbox"/> Student identifies and describes Bhor’s model<input type="checkbox"/> Student explains how Rutherford improved the plum Pudding Model of the atom.<input type="checkbox"/> Describes the current model of the atom.<input type="checkbox"/> Student determines the main ideas of the reading and uses them to explain, compare and contrast what each scientist found and how they found it.<input type="checkbox"/> Student fully describes the relationships between the different discoveries of the atom and how each discovery built on the knowledge gained from the one before.<input type="checkbox"/> Less than three standard English conventions mistakes.