

3.1 The Nuclear Atomic Model & Important Contributions in the Development of the Model

John Dalton (1809)	Dmitri Mendeleev
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Fig. 3.1

Joseph John Thomson (1897)	<p>Ernest Rutherford (1898–1911)</p> <p>Experiment:</p> <p style="text-align: right;">Fig. 3.4</p> <p>Findings:</p> <ul style="list-style-type: none"> - most _____ - some _____ - very few _____ <p>Conclusion:</p> <p style="text-align: right;">Fig. 3.5</p> <p>Problems with Rutherford Model:</p>
James Chadwick	
Hantaro Nagaoka (1904)	
Max Planck (1900)	
Albert Einstein (1905)	

Fig. 3.3

Niels Bohr (1913)

Key Finding (Success)

Fig. 3.8, 3.9, 3.11

Points:

1. _____
2. _____
3. _____

Problems with Bohr Model:

Electromagnetic Spectrum

Line Spectra

Emission Spectrum

Absorption Spectrum