

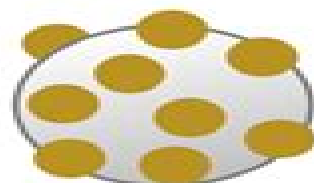


Dalton, 1808

First to describe atoms in a modern, scientific sense

– Doesn't explain electricity

+ Idea of "atoms"

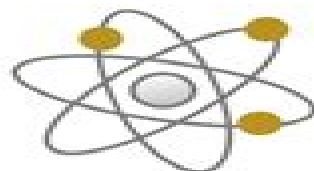


Thomson, 1897

Thomson's Plum Pudding Model

– Doesn't explain why some of Rutherford's α -particles bounced back

+ Protons & electrons



Rutherford, 1911

Rutherford shot α -particles through gold foil; some bounced back!

– Why don't the electrons lose energy and crash into the nucleus?

+ the Nucleus

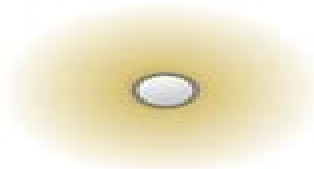


Bohr, 1913

Basis for our modern atomic model

– Doesn't explain quantum mechanics

+ Electron Shells



Schrödinger, 1926

Quantum mechanics

– Why are some atoms of the same element heavier?

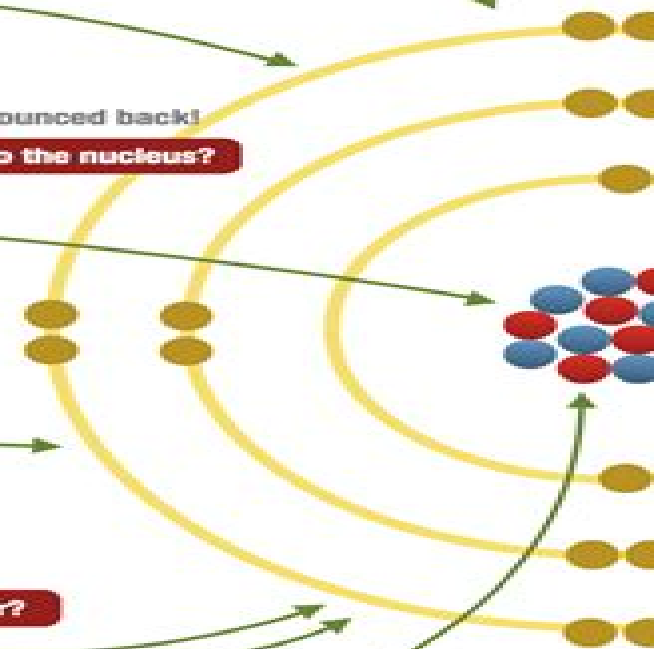
+ Subshells

+ 'Shells' are actually 'orbitals'



Chadwick, 1932

+ Neutrons!



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Clifford Lane



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