Topic 3 – The Atomic Structure

Lesson 1 – The Historical Development of the Modern Atom

Terms to Know

Atom –

Hard – sphere model –

Plum – Pudding model –

Empty – Space model –

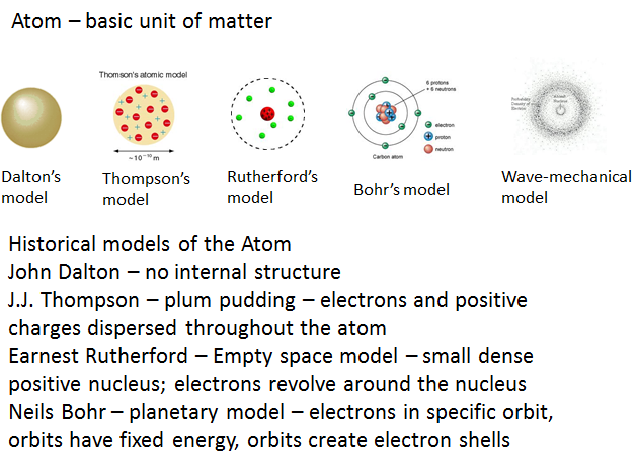
Bohr’s Planetary model –

Wave – Mechanical (Electron-Cloud) model –

Orbital –

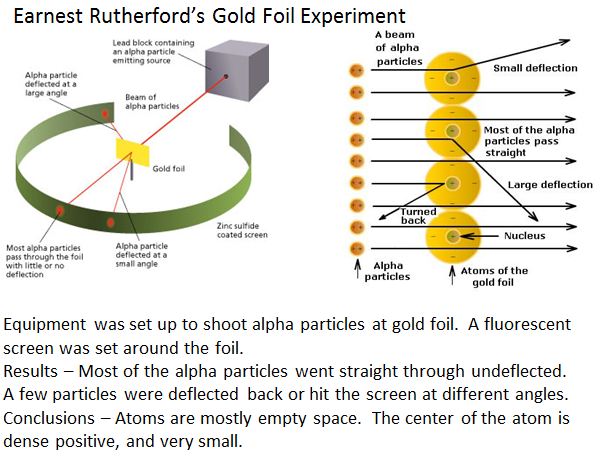
Cathode Ray experiment –

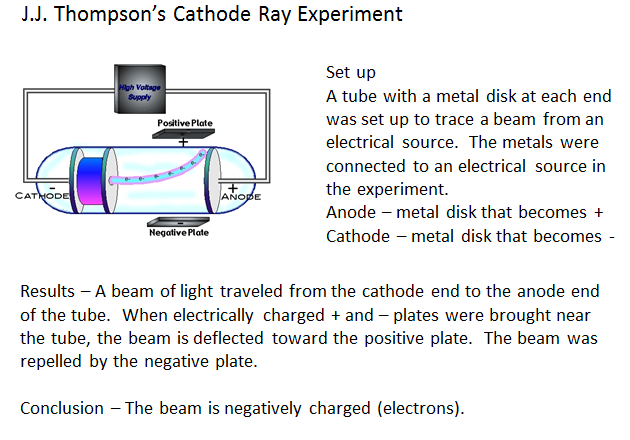
Gold Foil experiment –



**Wave mechanical model – current and most widely accepted model of the atom**

* **Small dense positive nucleus**
* **Electrons found outside the nucleus in a region called an orbital**
* **An orbital is an area where electrons are most likely to be found**

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