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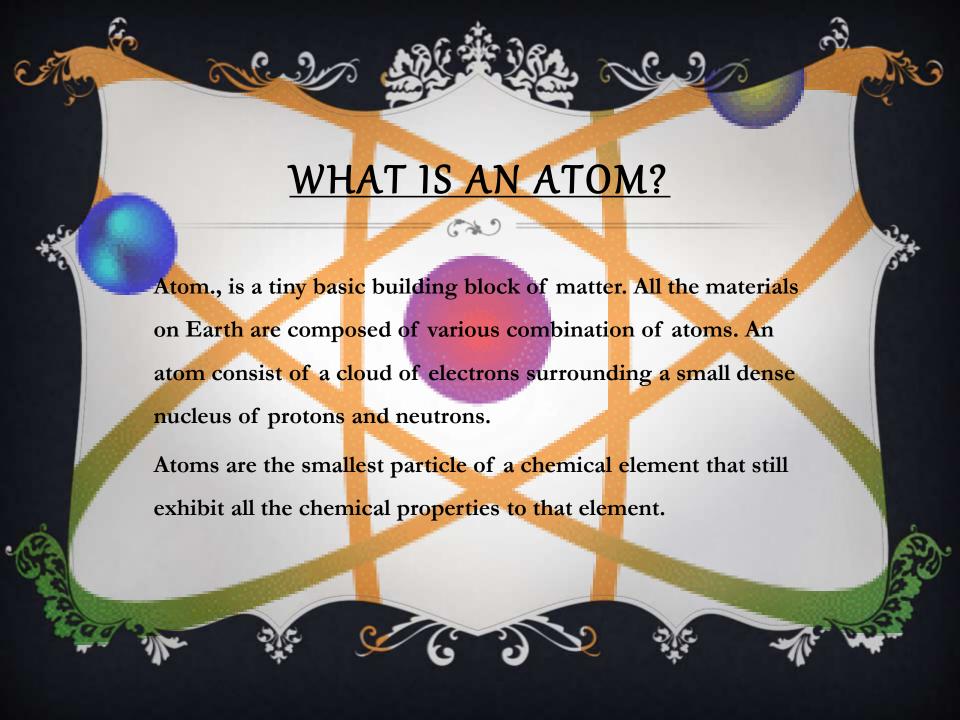
HISTORY OF ATOM...

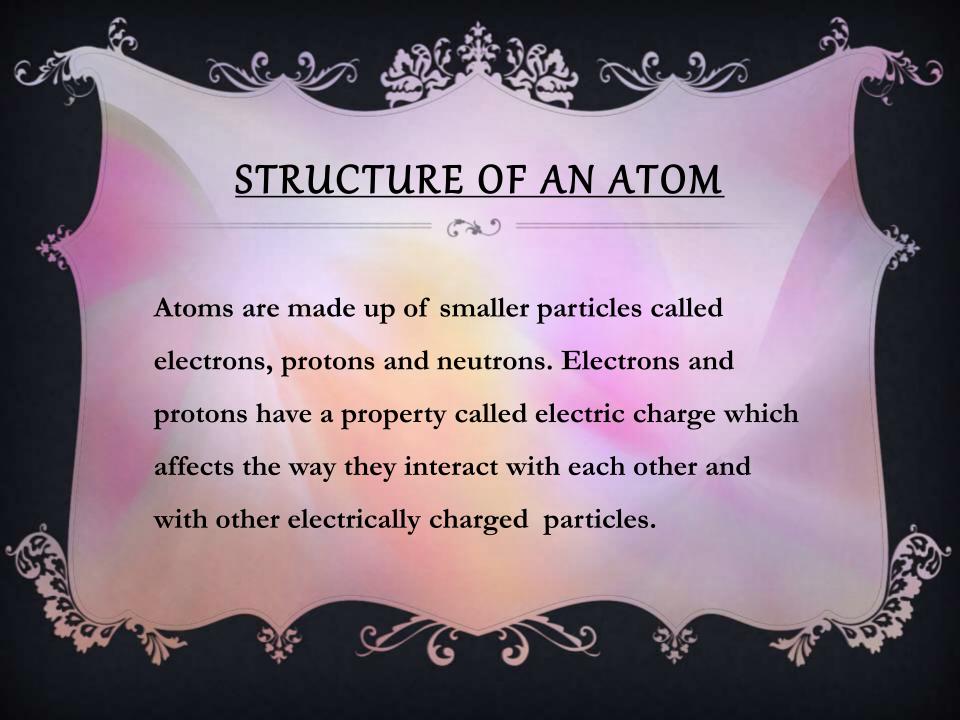
Democritus(460 BC) developed the idea of "ATOM" -----

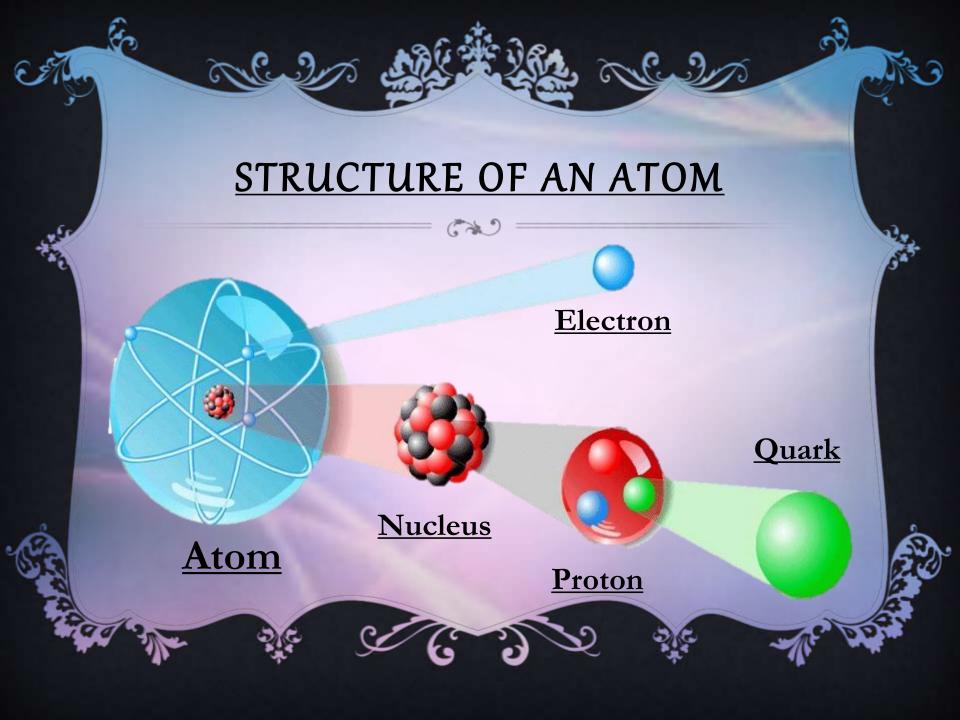
He pounded up materials in his pestle and mortar and reduced them to smaller and smaller parts which he called --- "ATOMA"

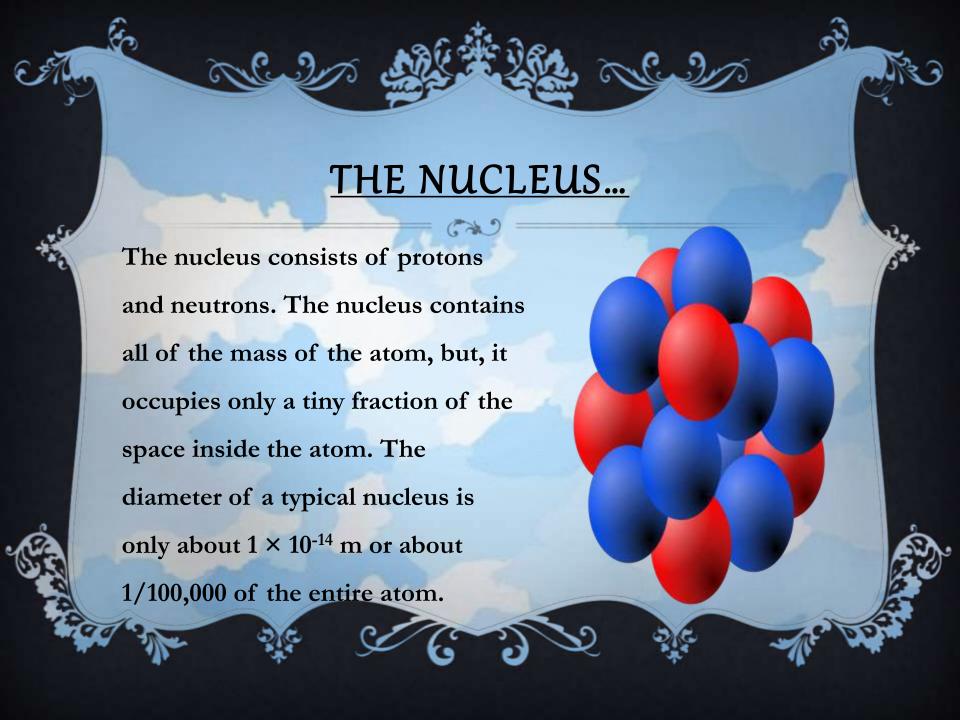


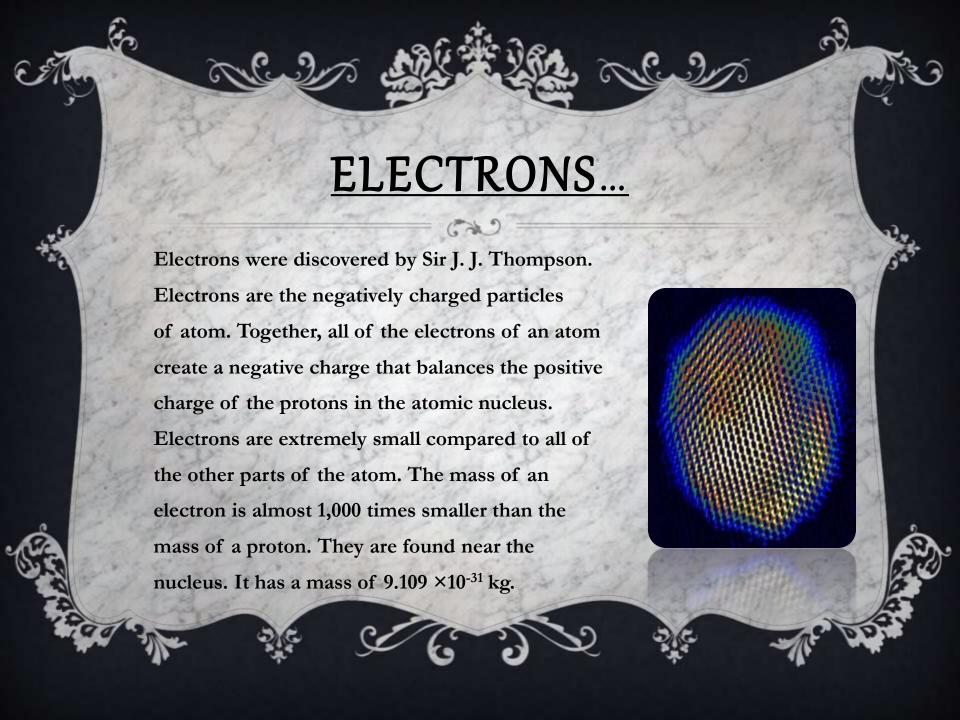
AllPosters

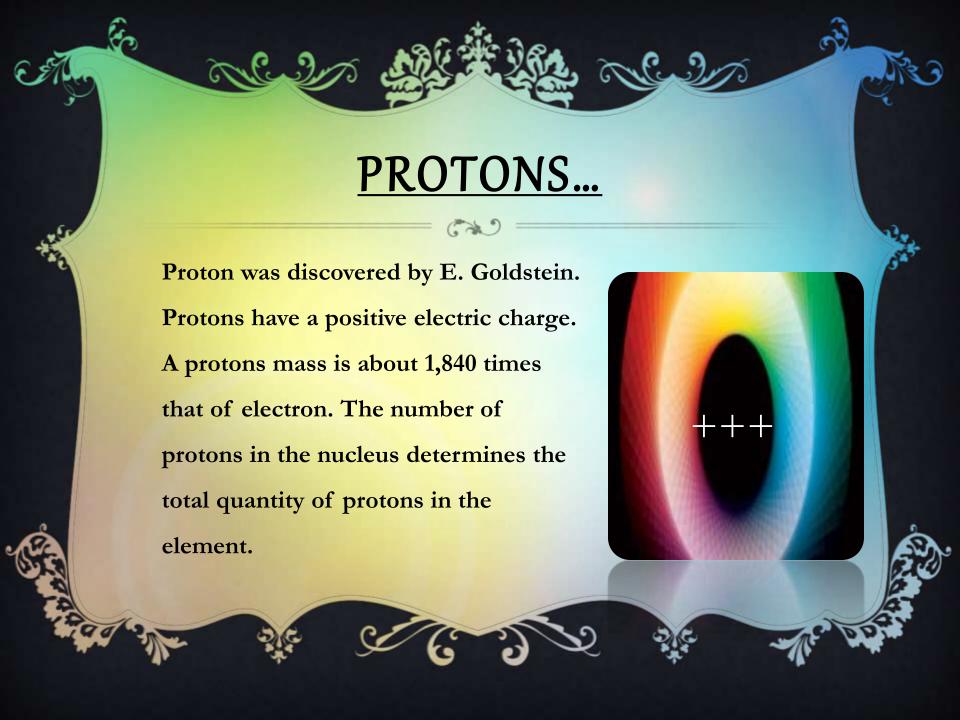


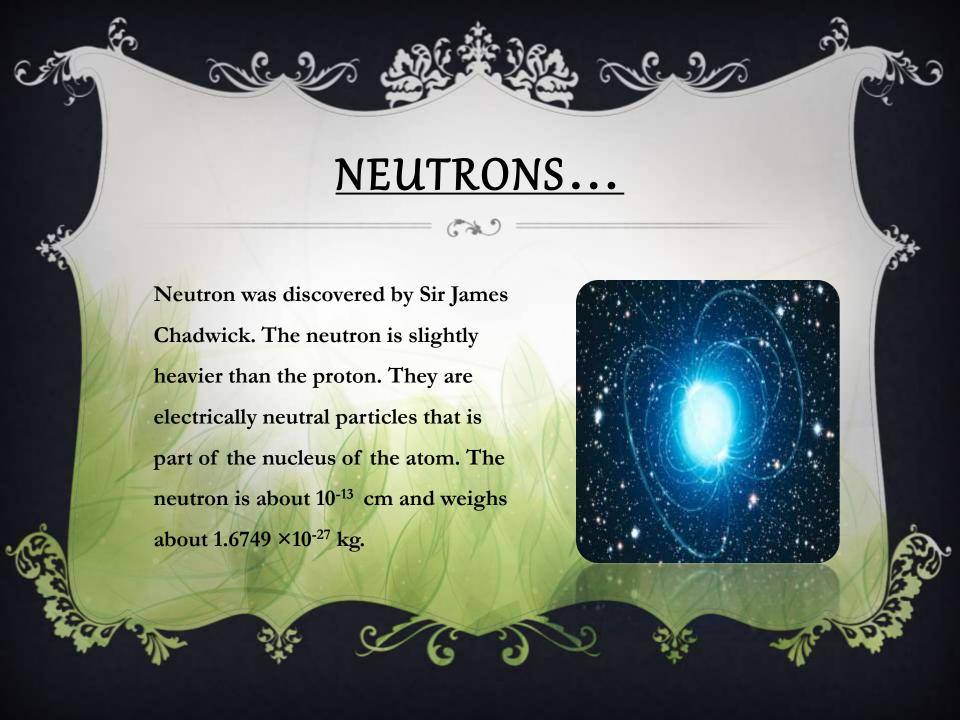


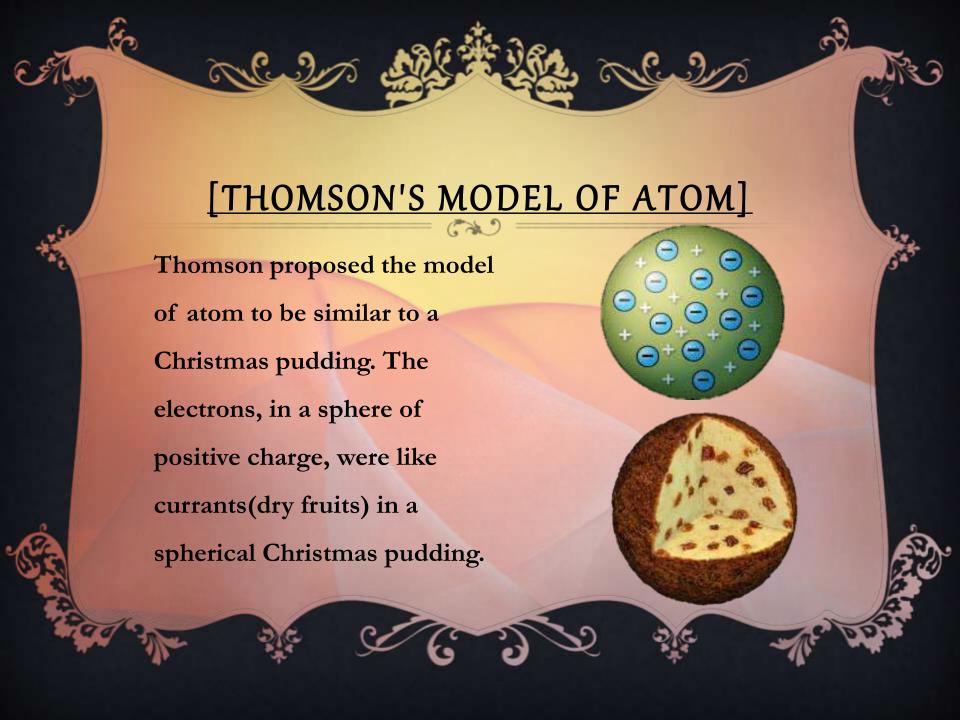










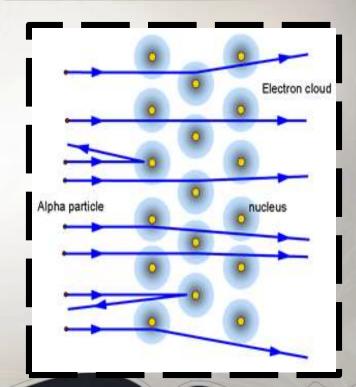


[RUTHERFORD'S MODEL OF ATOM]

An atom consists of a positively charged center in the atom called nucleus. The mass of the atom is contributed mainly by the nucleus. The size of the nucleus is very

The electrons revolve around the nucleus in well defined orbits.

small as compared to the atom.

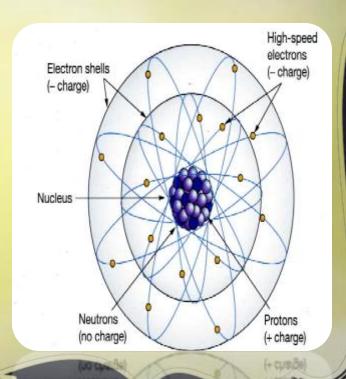


Scattering of α **(** particles by a gold foil

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[BOHR'S MODEL OF ATOM]

Bohr agreed with most of the points regarding atom as proposed by
Rutherford's model of atom, except the revolution of electrons for which he added that there are only certain orbits where electrons revolve inside the atom.
While revolving in their discrete orbits they do not radiate energy.





HOW ARE ELECTRONS DISTRIBUTED IN DIFFERENT ORBITS?

+ The first shell =
$$2n^2 = 2(1)^2 = 2$$

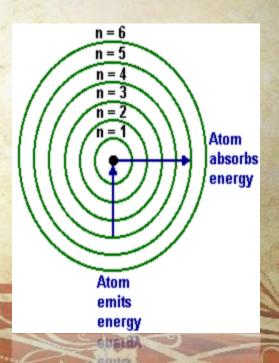
↓ The second shell =
$$2n^2 = 2(2)^2 = 8$$

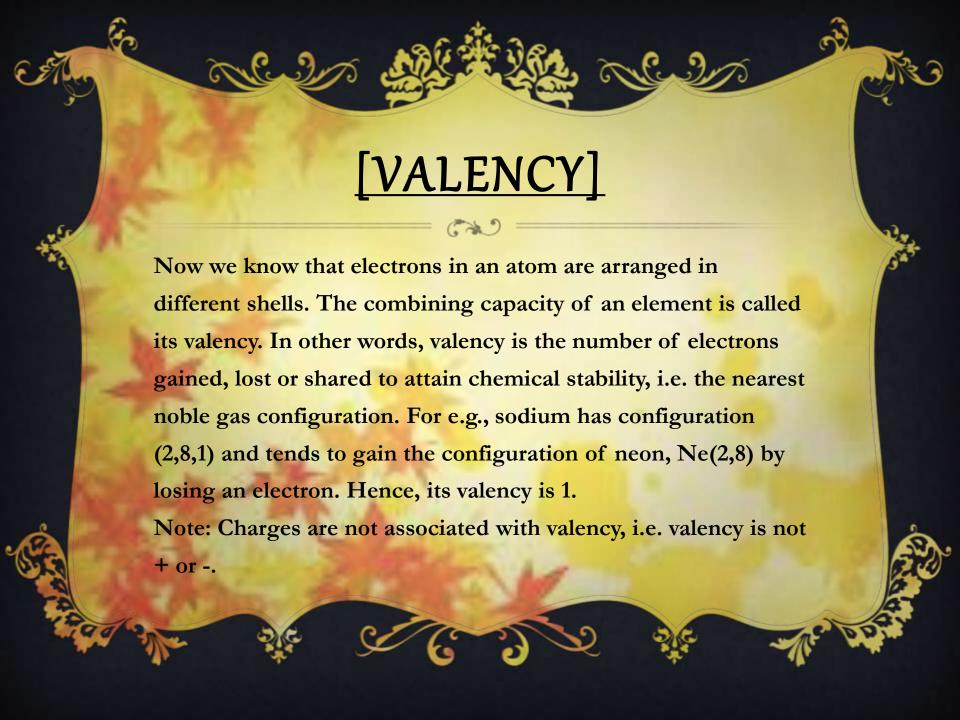
$$+$$
 The third shell $= 2n^2 = 2(3)^2 = 18$

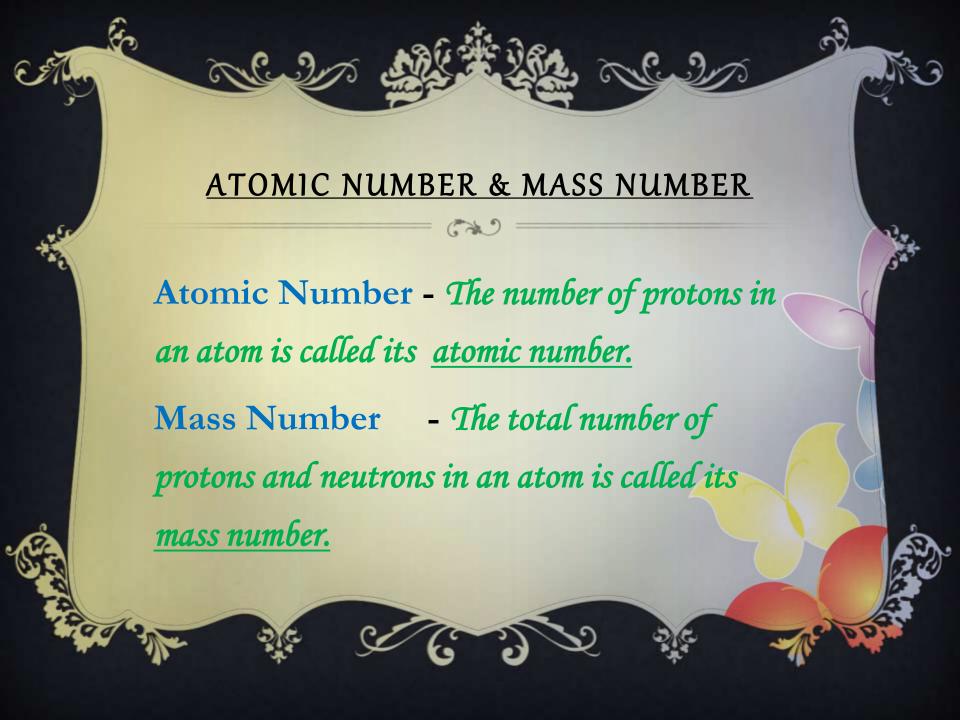
1 The fourth shell =
$$2n^2 = 2(4)^2 = 32$$

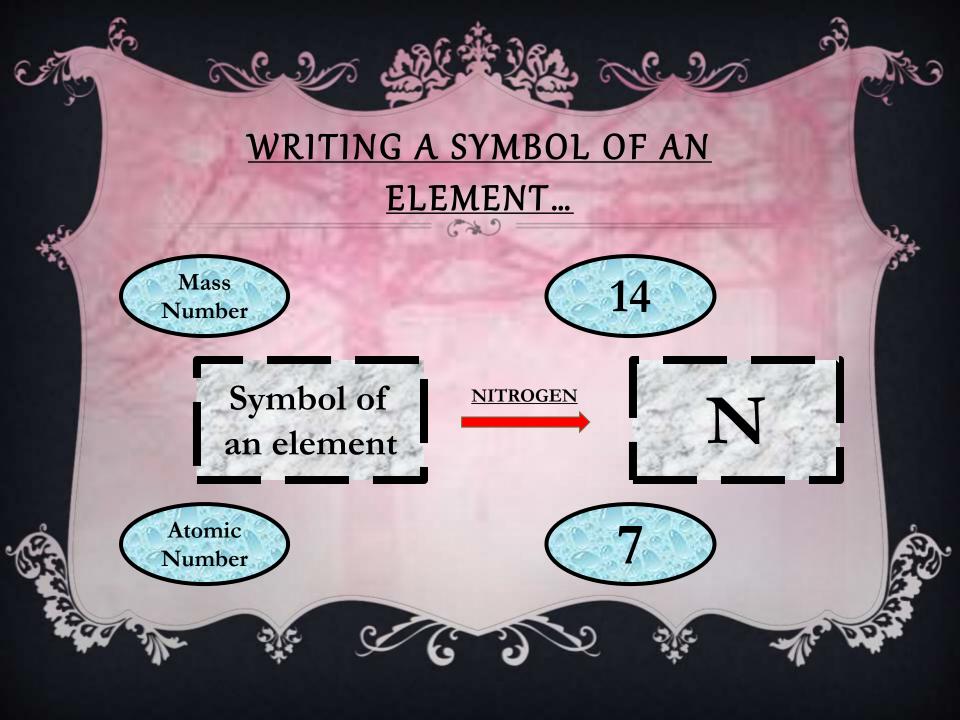
And, the distribution of electron in such a manner is called "Electronic

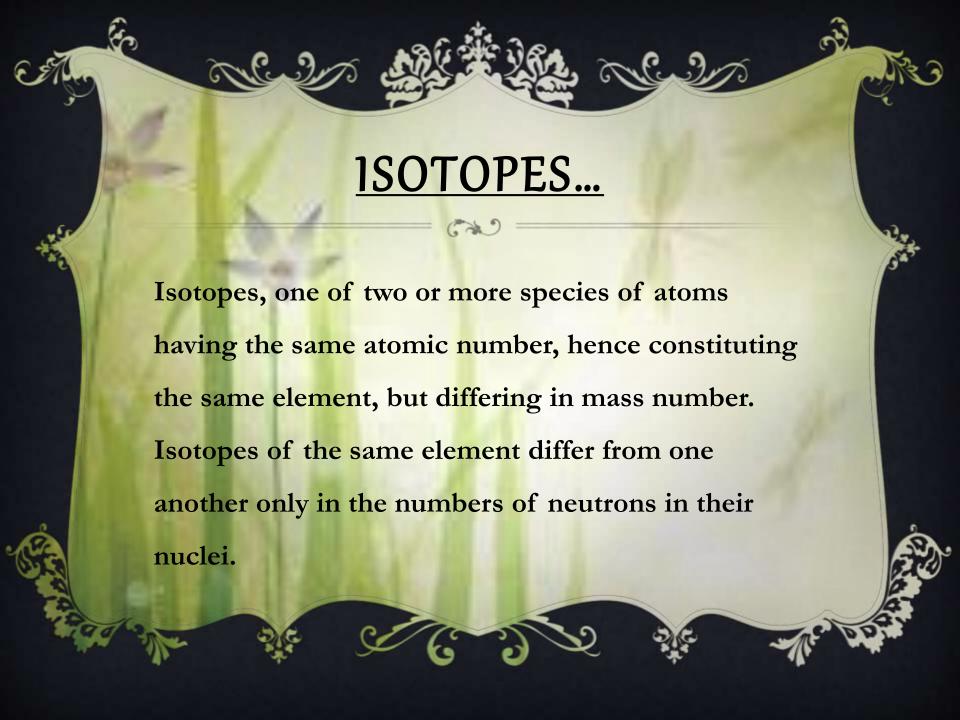
Configuration".

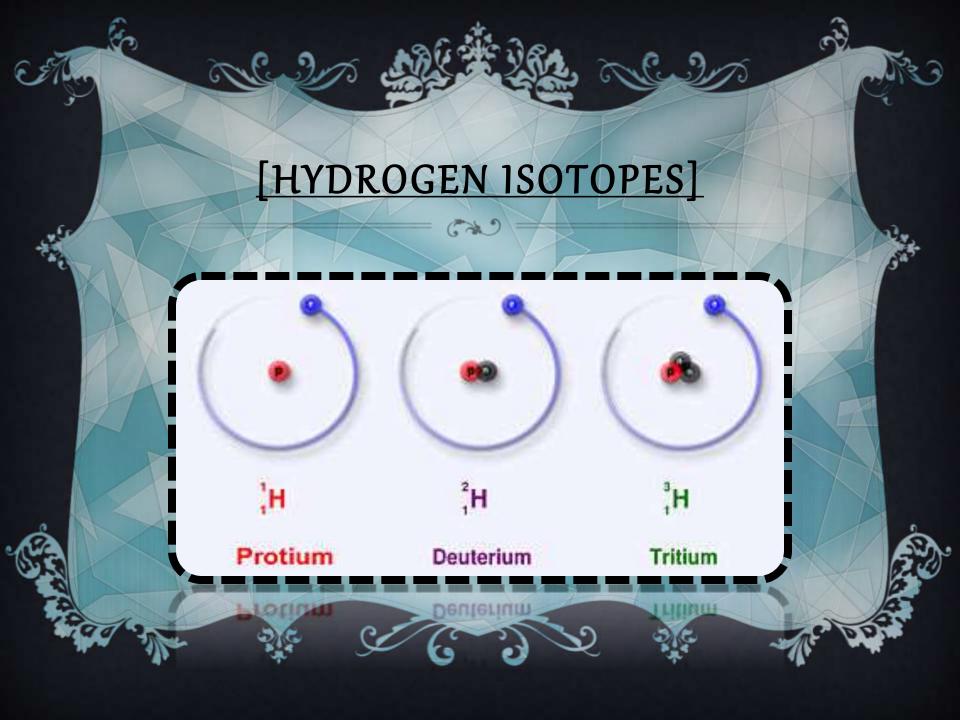


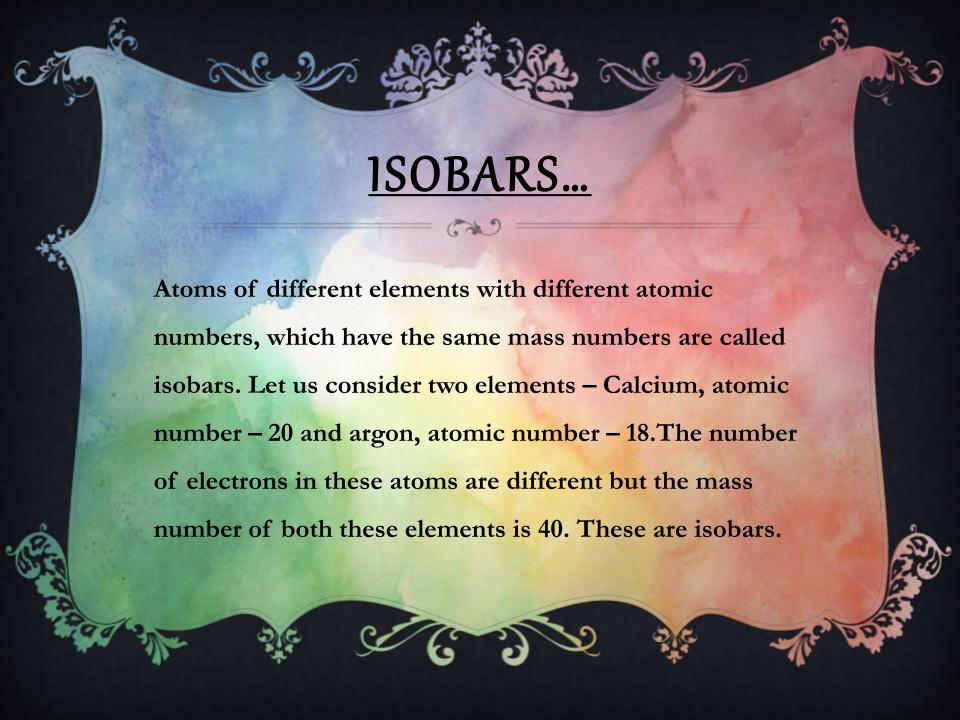










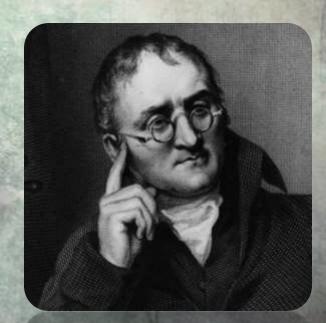




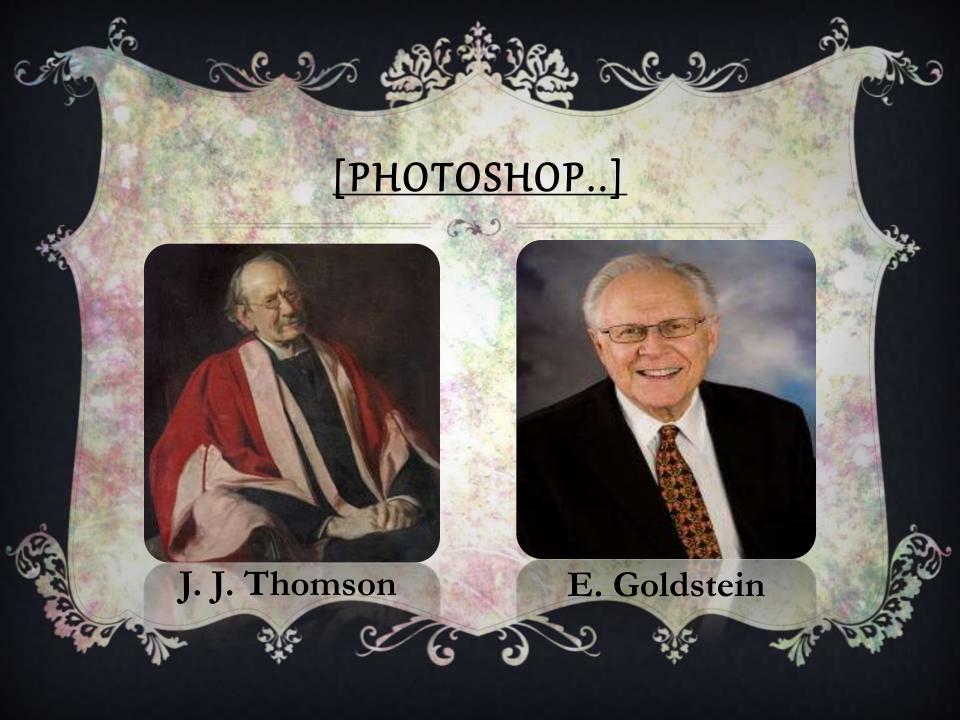
[PHOTOSHOP..]



Democritus



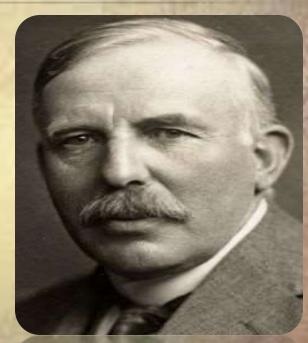
John Dalton







James Chadwick



Ernest Rutherford

