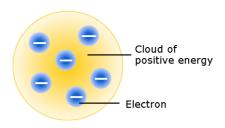
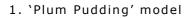
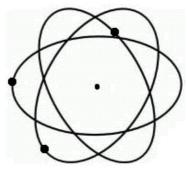
## Six types of atomic model

## About these models:

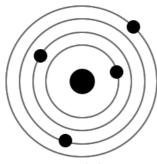
- Early atomic theory depicted atoms as spheres or balls (6).
- This concept was refined when Thomson discovered the electron and in 1904 developed a 'plum pudding' model (1).
- With Rutherford's discovery in 1911 that atoms are almost all space, and have a dense nucleus, came the 'solar system' model (3).
- This was soon refined in 1913 by Neils Bohr who proposed a model with a central nucleus surrounded by orbiting electrons (modified three years later by Sommerfield who specified elliptical orbits) (2).
- Quantum mechanics generated ever more abstract models, replacing the idea of electrons in fixed orbits by that of a probability distribution around the nucleus (4).
- Another way of representing an atom is by its relationship to the periodic table (5).



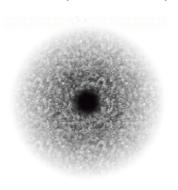




2. Orbits model (Bohr's model)



3. Solar system model



4. Electron cloud model

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6

5. Periodic table representation (model represented here is the carbon atom)



6. Ball model (old Greek)