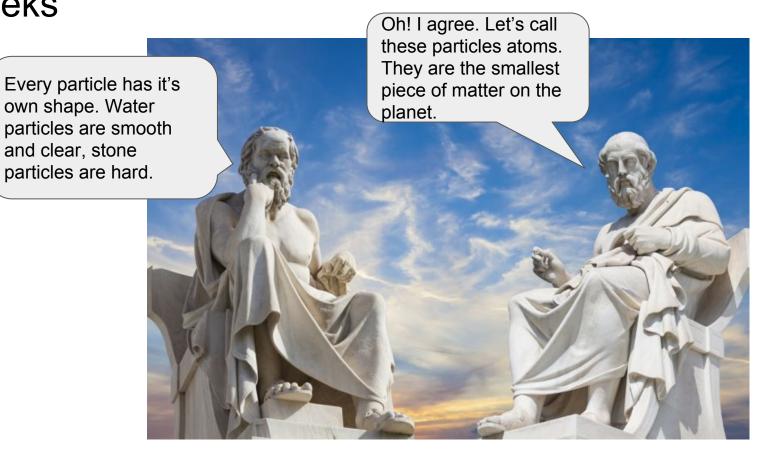
Memory Lane

A scrapbook of an atom's road to discovery

The Greeks



New Vocab:

Atom: Smallest indivisible unit of matter. Makes up all matter.

2000 years later...



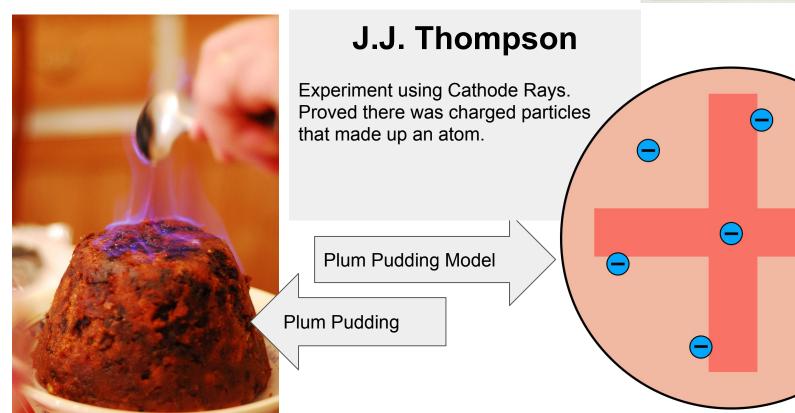
Dalton said the same thing as the Greeks. The smallest indivisible unit of matter was the atom. And each type of matter had a different size.

Difference between Dalton and the Greeks? Dalton had experimental evidence to back him up.

Billiard Ball Model

100 years later...





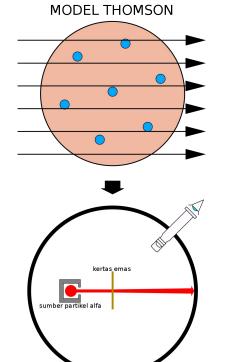
New Vocab:

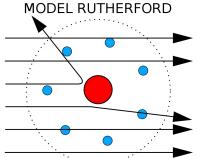
Electron: Small NEGATIVE charge within an atom

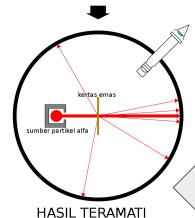
Proton: Small POSITIVE charge within an atom.

Planetary Model

10 years later....







Ernest Rutherford

Neutron

Electron

Nucleus

Sent small particles into a thin piece of gold foil, if there was no mass in the middle, they would have gone straight through. But that didn't happen. They bounced all over the place.

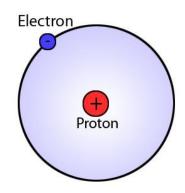
Experiment proving Rutherford's theory

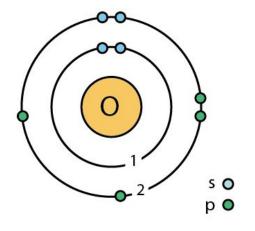
New Vocab:

Nucleus: Most of the mass within an atom is contained in the nucleus. Contains Proton and Neutron

Neutron: It is a **NEUTRAL** particle inside the centre of the atom.

3 years later... (1913)



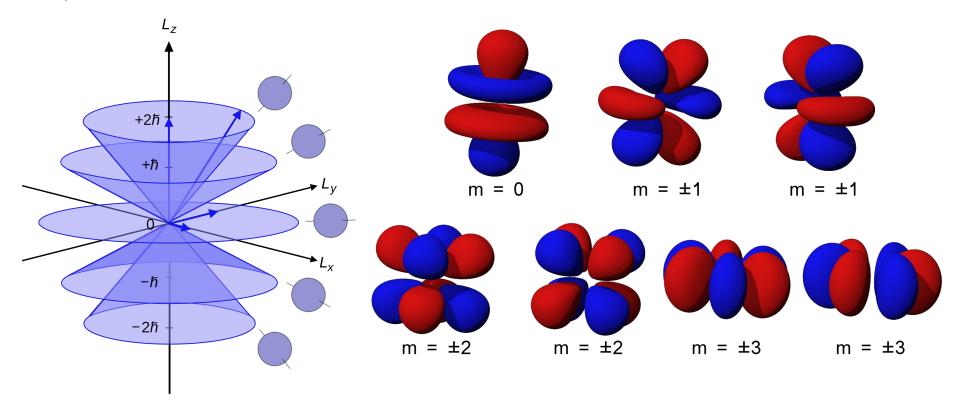


Nehl Bohr

There are different energy levels for electrons. They rotate in a specific level.

His experiment showed that as electrons leave certain levels, they release energy.

Quantum Model



The End... For Now