What is an atom?
Atoms are tiny particles that make up all material around us.
material: Element/Mixture/Compound.

According to Dalton’s theory
1-All material is made up of tiny particles atom.
2-Atoms of an element are all the same.
3-Different elements have different types of atoms.


1-Nucleus same word
2-orbits level energy
3-sub-atomic particles shell
 orbits
A-Protons
B-Neutrons inside the nucleus
C-Electrons orbiting around the nucleus

Proton number:-it is the number of protons inside the atom
the atomic number is the same as the proton number

In pure elements, the number of protons is the same as the number of electrons.

Neutrons-proton=toghather mass number

atomic number


mass number

the bugger number is a mess of number
the less number is the atomic number

The mass number is the atom's total amount of protons and neutrons.
mass number=p+n
 period group

 discovery of the nucleus

top view of most of the there must
the atoms atom is an be something solid
in gold foil empty space side the atom



NOTE
atomic configuration
the way electrons are arranged in the orbit.
Each orbit has a max number of electrons.
1st orbit =holds up to 2e
2nd orbit =holds up to 8e
3rd orbit =holds up to 8e
4th orbit =holds up to 10e
for ex.

2,8,2

element e #orbit 3e in the outer shell
Ne 2,8,7 2 8 G8P2
Si 2,8 3 4 G4P3
Ca 2,8,8,2 4 2 G2P4
Be 2,2 2 2 G2P2
He 2 1 2 G8P1