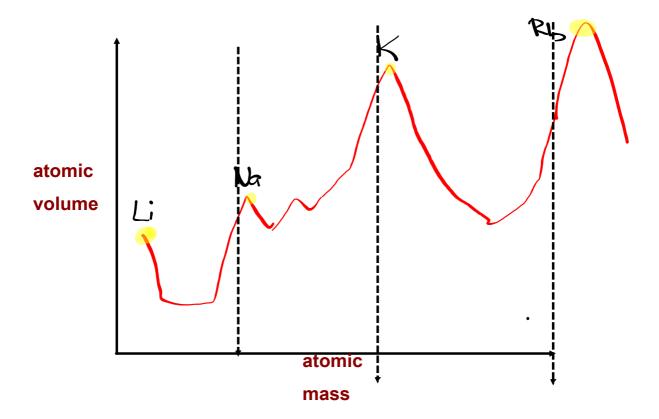
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Parts of an Atom

Atom - is electrically neutral.

- is composed of a nucleus containing protons and neutrons, and electrons that surround the nucleus.

Atomic Number - is the number of protons found in the nucleus of an atom.

<u>Protons</u> - are subatomic particles possessing a positive charge.

Neutrons - are subatomic particles possessing a neutral charge.

<u>Electrons</u> - are subatomic particles possessing a negative charge. For an atom, the electrons are equal to the atomic number.

<u>Isotope</u>- is a form of an element in which the atoms have the same number of protons as all other forms of that element, but it has **adifferent number of neutrons and therefore a different atomic mass**

Mass Number - is the sum of the number of protons and neutrons.

Carbon - 6 protons and 6 neutrons has a mass number of 12.

Another isotope of ¹²C is ¹³C, which has 6 protons and 7 neutrons.

Isotope Notation:

MAIN SUBATOMIC PARTICLES				
Particle	Location	Relative Mass	Charge	
proton	nucleus	1 a.m.u.	+	
neutron	nucleus	1 a.m.u.	none	
electron	outside nucleus	small	-	

SUB. ATOMIC PARTICLES	LOCATION	CHARGE	RELATIVE
Protons	Nudeus	+'ive	lam.u.
Neutrons	Nudeus	neutral	a.m.u.
Electrons	Outside Nucleus	-'ive	"massless" Oa.m.u.

