



Atoms and Ions - Number of protons, neutrons and electrons

Atoms

Atom	Atomic number	Mass number	Number of protons	Number of neutrons	Number of electrons
$^{12}_6\text{C}$					
$^{37}_{17}\text{Cl}$					
F	9	19			
Kr		84	36		
B			5	5	
Al				14	13

Ions

ion	protons	neutrons	electrons
$^7_3\text{Li}^+$			
$^{19}_9\text{F}^-$			
$^{24}_{12}\text{Mg}^{2+}$			
$^{16}_8\text{O}^{2-}$			
$^{27}_{13}\text{Al}^{3+}$			

Mixture

Particle	Atom or ion	Atomic number	Mass number	Number of protons	Number of neutrons	Number of electrons
$^{23}_{11}\text{Na}^+$	ion	11	23	11	12	10
$^{31}_{15}\text{P}$						
		13	27			10
	atom	2	4			
				12	12	