Describing Substances				
What is an isotope?				
Isotopes are atoms that are the same				
element but weigh differently due to their				
number of neutrons.				
Some isotopes are radioactive which means				
their nuclei are unstable and pieces from				
it fly out (which will change what's left)				
Nuclear symbols are used to identify isotopes				
mass number #protons + #neutrons ~ 235				
atom #, #of protons 92				

The mass of an isotope comes from the number of protons and neutrons, each weighs				
1 amu (atomic mass unit).				
Electrons are about 1000 lighter than a proton and so are insignificant to an atoms mass.				







	р	rotons	neutrons	mass of			
12 6	C	bpt	6n°	12 amu 9910			
13		6p ^t	7n°	13 ann ~1%			
14	С	6p+	8n°	14 annu 210h			
				→ 12.01 amu			
atomic	atomic mass = weighted average of all isotopes						
	01	The Fer		2			

	The mass of an element shown on the periodic table has two meanings					
1. average mass of	1. average mass of an element's atom 2. the mass of one mole of that element. In other words the mass of 6.02 × 10 ²³ atoms					
2. the mass of one						
In other words the						
	nole weighs atoms 12.01 grams This is called "Molar Mass"					