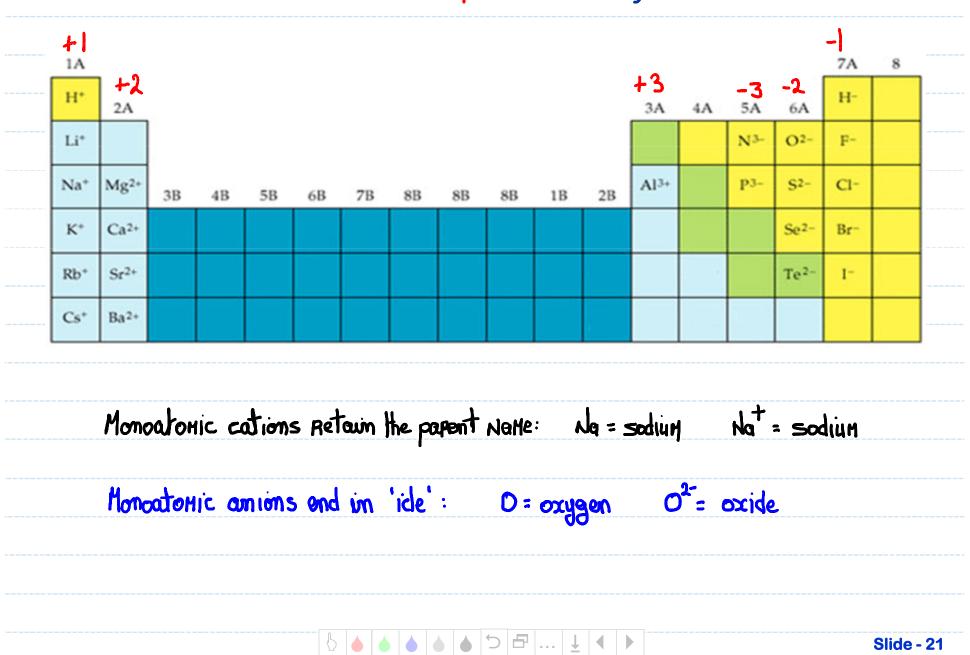
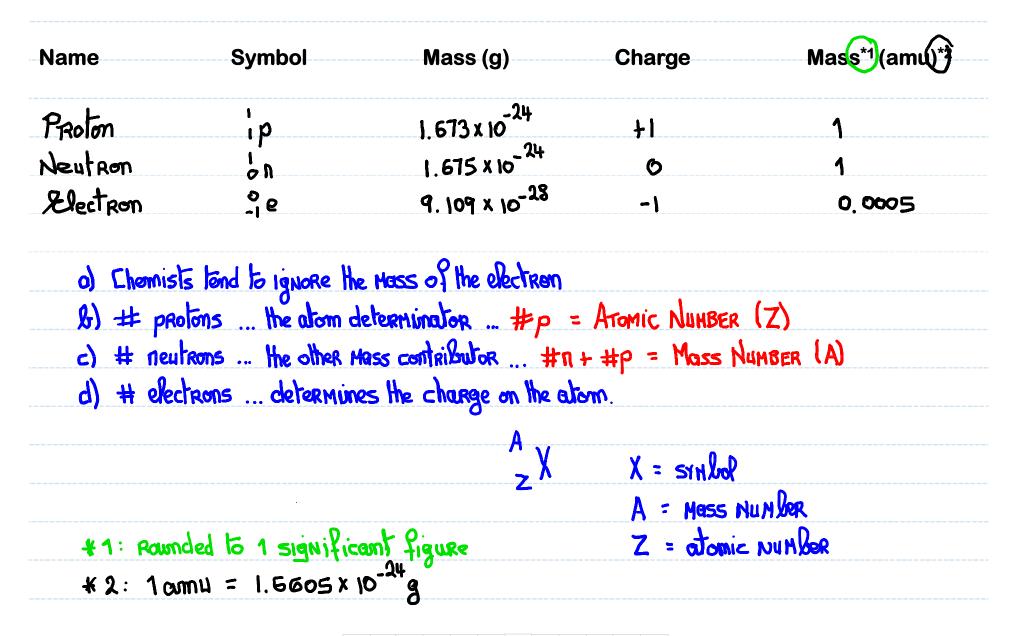
	<u>Announcements – Lecture III – Tuesday, Sep 9th</u>
1.	iClicker for credit starts Thursday , September 11 th
	Register your iClicker in Owl (a homework assignment) by tonight, Tuesday, September 9 th
2.	First Lab – Saturday, September 20 th 1-4pm ISB 155 /160 (A-E)
	\[\begin{aligned} & b & b & b & b & b & b & b & b



3.5 How Do We Name Ionic Compounds – An Early First Visit

2.4 What Are Atoms Made Of? – *The Three Subatomic Particles*

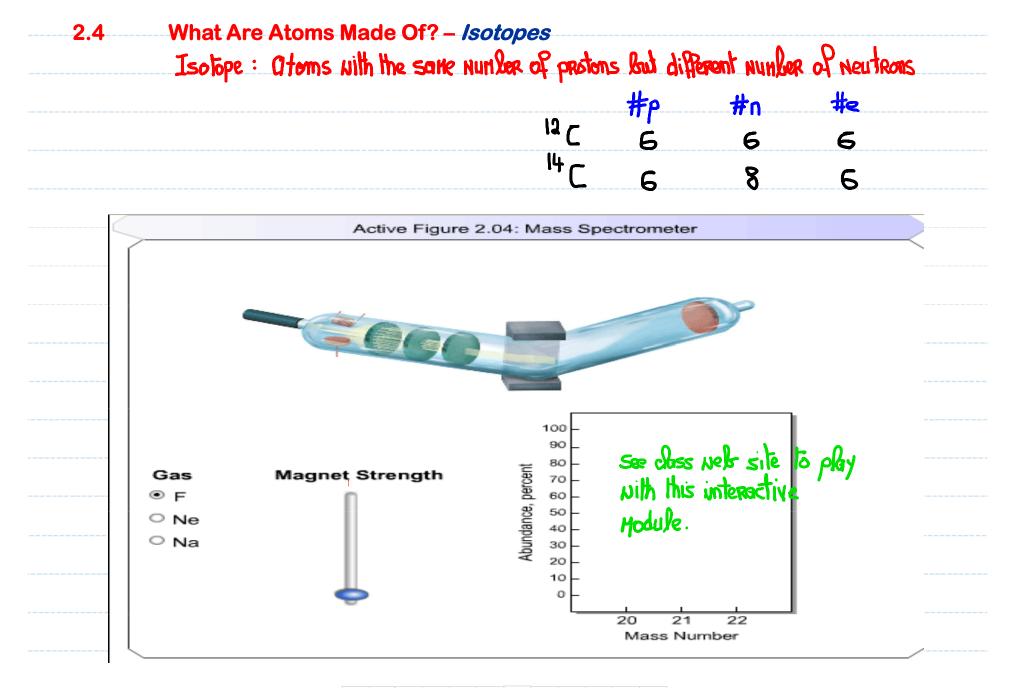


2.4 What Are Atoms Made Of? – *The Three Subatomic Particles*

2.4 Example_1 Which if any of the following species has the same number of Neutrons as it does Electrons?

	a) d)	⁴⁷ 24Cr ³⁵ Cl⁻	b) e)	²⁴ Mg ²⁺ ¹²⁵ 50Sn	c) ⁵⁹ 27Co ²⁺	-	
	\smile						

47 24	Cr	<u># Protons</u> 24	<u># Neutrons</u> 23	<u># Electrons</u> 24	
วุน	Mg ²⁺	12	12	10	
59 17	Co ²⁺	27	32	25	
2	⁵ Q ⁻	17	18	18	
1	25 50 ⁵ n	50	75	50	



2.4 What Are Atoms Made Of? — *Atomic Weight*

2.4	Examp	le_2					
	Chlorine has two naturally occurring isotopes:						
	³⁵ Cl,	75.77% Abundant,	Exact Mass 34.96885 amu				
	³⁷ Cl,	24.23% Abundant,	Exact Mass 36.96590 amu				
	What is	s the Atomic Weight of Ch	orine?				

Atomic Neight: simply the neighted average of the naturally occurring isotopes

0.7577(34.96885) + 0.2433(36.96590)= 35.4527 amu



2.4 What Are Atoms Made Of? — Atomic Weight 2.4 Example_3 Neon has 3 naturally occurring isotopes: ²⁰Ne, 90.92% Abundant, Exact Mass 19.9989 amu ²¹Ne, 0.26% Abundant, Exact Mass 20.9975 amu ²²Ne, 8.82% Abundant, Exact Mass 21.9979 amu What is the Atomic Weight of Neon?



0.9092(19.9989) + 0.0026(20.9975) + 0.0882(21.9979) = 20.1778 and



