9/4/2019	Reminders	
	Mouteire Homework: Up FRI @ Son	
	Monterig Homework: Up FRI @ SAN Due MON @ NOON	
	PRE-LABS: Due on Bb @ noon on lab day	
	Quizzes: @ 2:30 in MAS 212 on lab day!	
		18

Accuracy + Precision	
- Treetistore	
Accuracy ~ how close our measurements are to TRUE value	
Precision v" each other.	
dartboard analogy - aiming for bullsege	
-aimig for bullsege	×
Ax Ax Ax	
P / Px P/ Px	
read 1.8, 1.9	
Chapter 2: Atoms + elements.	
Ahomos: uncuttable:	
John Dalton, 1808: "Atomic theory"	
1. Element consist of atoms: 00 (An)	
1. Element consist of a toms: 30 Am  2. Atoms of a given element: same: Am Am  But - diffit from a toms of other element:	
Bu - diffit from atom of other elevers:	
Pb +(Au)	

## Measure the mass of a 10.00 g lead block

	Student A	Student B	Student C
Trial 1	10.49 g	9.78 g	10.03 g
Trial 2	9.79 g	9.82 g	9.99 g
Trial 3	9.92 g	9.75 g	10.03 g
Trial 4	10.31 g	9.80 g	9.98 g
Average	10.13 g	9.79 g	10.01 g

Student A:

**X** Inaccurate

**X** Imprecise

Student B:

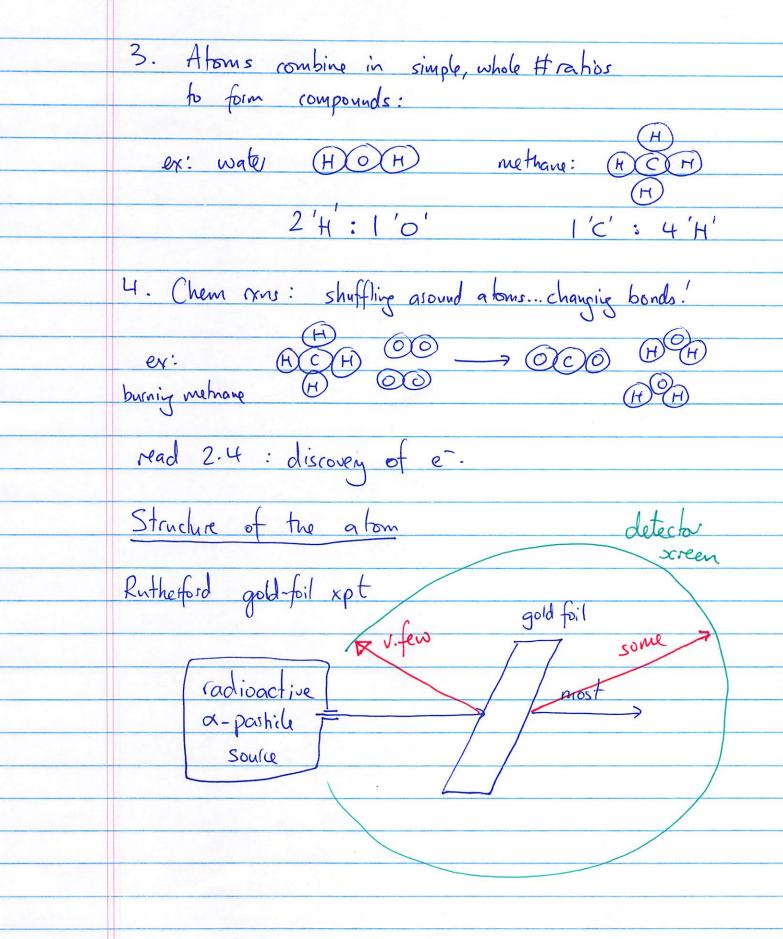
Inaccurate

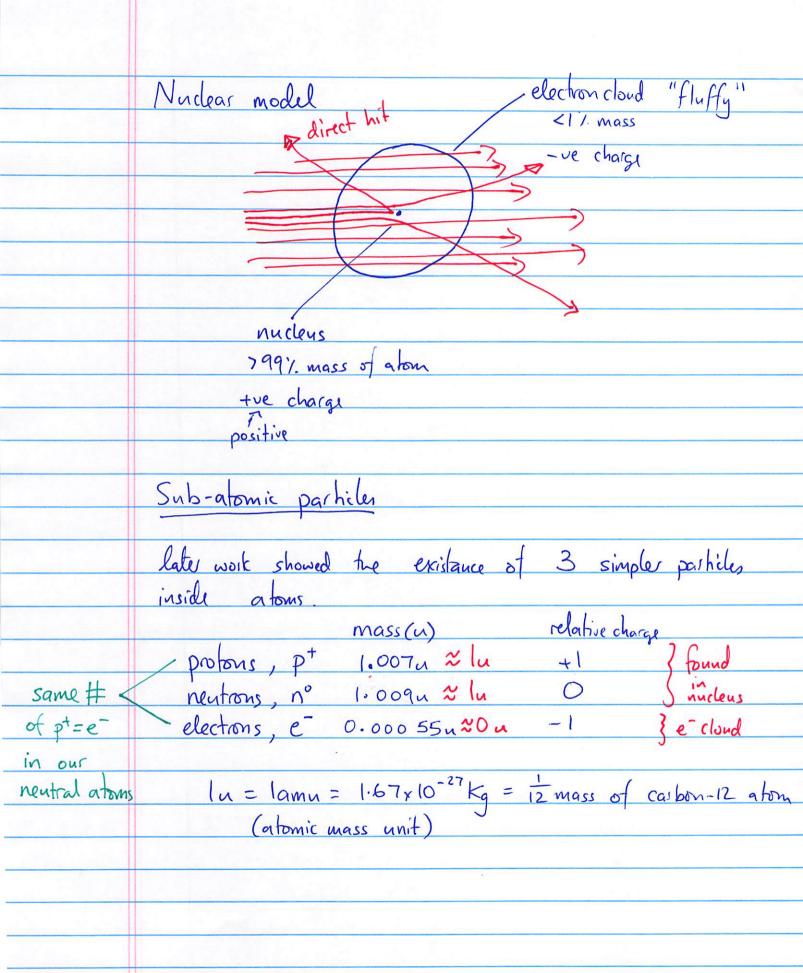
**✓** Precise

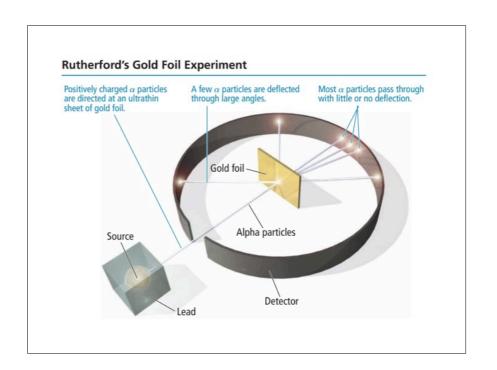
Student C:

**✓** Accurate

**⊘** Precise







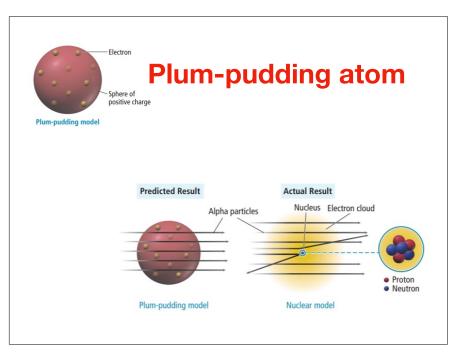
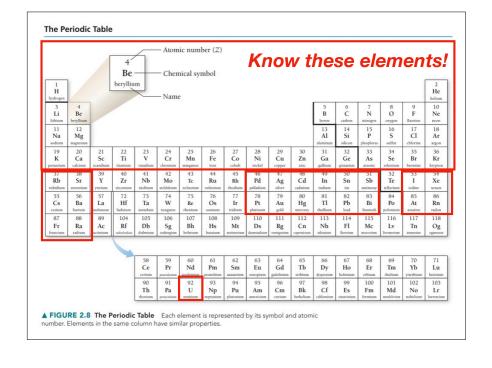


TABLE 2.1 Subatomic Particles					
	Mass (kg)	Mass (amu)	Charge (relative)	Charge (C)	
Proton	$1.67262 \times 10^{-27}$	1.00727	+1	$+1.60218 \times 10^{-19}$	
Neutron	$1.67493 \times 10^{-27}$	1.00866	0	0	
Electron	0.00091 × 10 <sup>-27</sup>	0.00055	-1	$-1.60218 \times 10^{-19}$	



Elements + #pt
Dr A
Pb Au
done lating of the
elements are determined by #p+ in nucleus - atomic #, Z
- and mich
Z
Pb Au
82pt 79pt
51. 1 . 1 . 2 . 14
Element symbol: 1 or 2 letter symbol  1st = CAPITAL Cobalt  if 2rd = lowercase ex: Co CO  X
if 2nd = language in Co CO
× × ×
Fig 2-8, p61
- memorize: 1-36
also know: Rb, Sr, Cs, Ba, Fr, Ra (symbol)
Pb, Ag, Cd, Pt, An, Hg
In Sn. I, Xe, Il, Pb, Bi, Kn
flashcards!
Na ~ sodium (natrium)
Ag ~ silver (argentum)