

Intensive

↳ Independent (does not depend on) mass

Extensive

Mass dependent

Sep 14-7:45 AM

PS1 (6)

$3 \times 10^6 \text{ ng}$	$10^{-9} \text{ g}$	1 Kg	= $3 \times 10^{-6}$
	1 ng	$1000 \text{ g}$	

$10^3$

$$\frac{10^6 \times 10^{-9}}{10^3} = \frac{10^{-3}}{10^3} = 10^{-6}$$

Formula

$$\frac{X}{\text{Temp.}}$$

“Cancelli”  
**NEVAH!**  
 Zero!

Sep 14-7:55 AM

	<u>°F</u>		<u>°C</u>		<u>K</u>
<u>H<sub>2</sub>O</u>					
BP	212		100		373
	↕ Δ180		↕ Δ100		↕ Δ100
FP	32		0		273

Sep 14-8:08 AM


⑪  $(\overset{\textcircled{2}}{31} / \overset{\textcircled{4}}{45.20}) + 14,000 =$   
 $0.6858$

2SF  $\boxed{0.69}$   $+ 14,000 =$   $14.\underline{6}\underline{9}$   
② 3 45F

Sep 14-8:11 AM

⑭

40¢
12oz

\$1.49	100¢	18	18
3L	\$X	1.057¢	32oz

1.47	¢
20	oz

$\frac{3.33}{1.47} = 2.27$  times more expensive

Sep 14-8:16 AM

⑰

<del>3 pounds</del>	453.59	<del>1 week</del>
<del>week</del>	1 pound	(days)

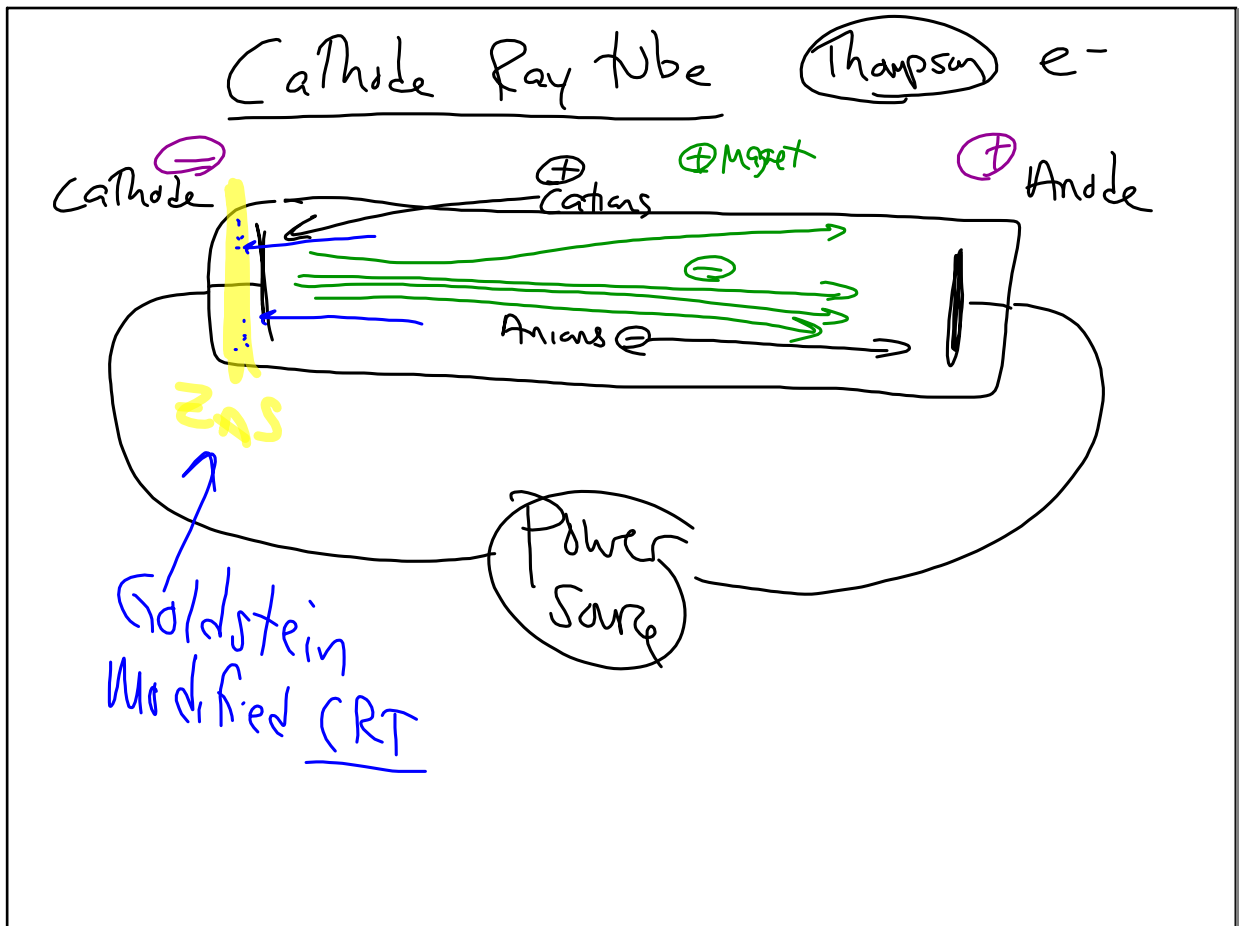
⑱

<del>446</del>	453.59	<del>1A</del>	<del>1A</del>
<del>ft</del>	1A	2m	2.54

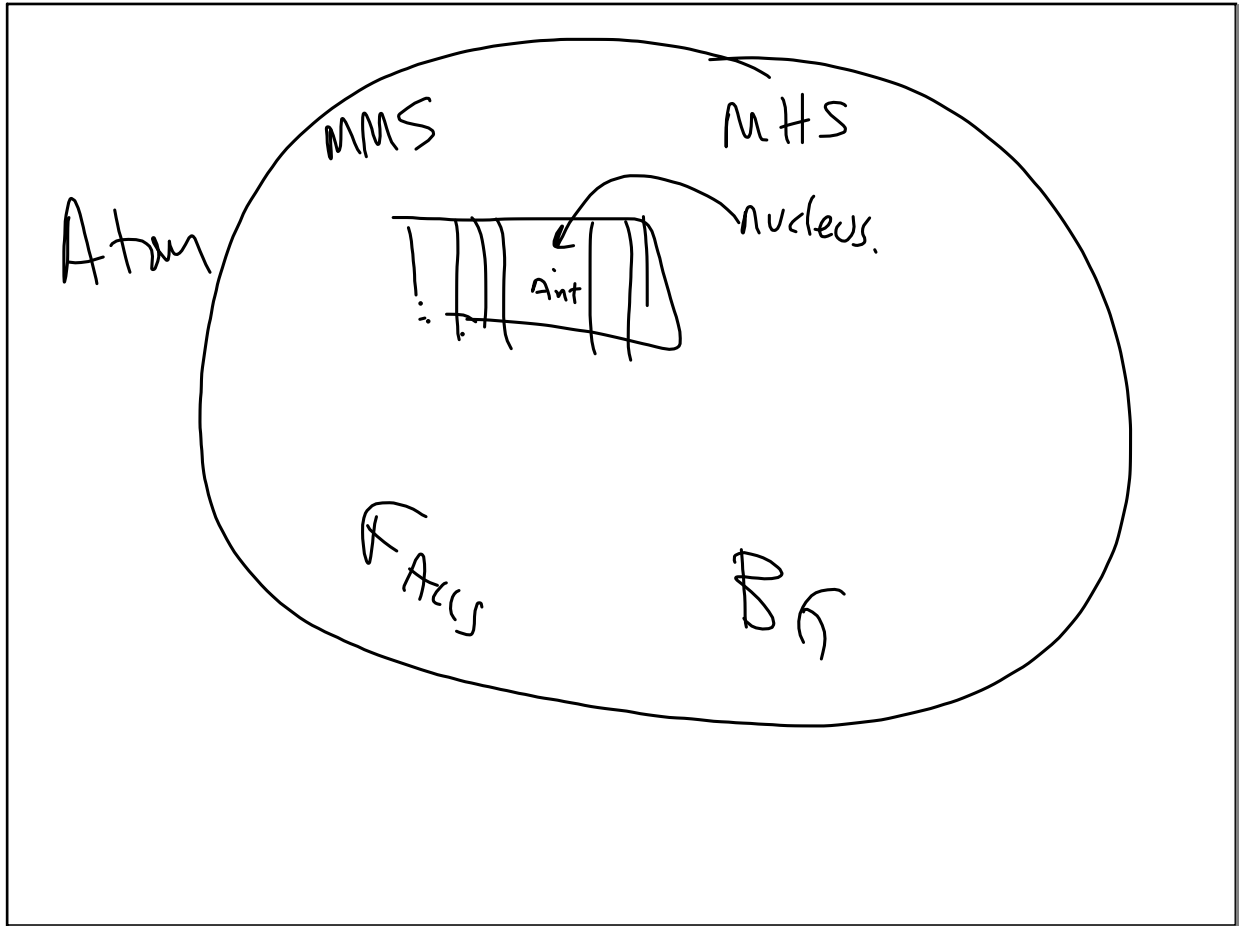
Sep 14-8:36 AM

Rutherford Atom mainly empty space.

Sep 14-8:57 AM



Sep 14-9:02 AM



Sep 14-9:11 AM

Nucleus - has ALL the mass  
 protons  $\oplus$ , 1amu  
 Neutrons  $\otimes$ , 1+ 9mu

Strong forces  $\rightarrow$  LOTS of energy.

$E = mc^2$

Sep 14-9:12 AM

(AW)

23 (+)

Finish PS H1

2.25

Sep 14-9:17 AM