

1.45e

$$\frac{22.5 \text{ gal}}{\text{min}} = \frac{? \text{ L}}{\text{Sec}}$$

$1 \text{ gal} = 3.78 \text{ L}$

$\frac{22.5 \text{ gal}}{\text{min}}$	3.78 L	$\frac{1 \text{ min}}{60 \text{ sec}}$	$= 1.42 \text{ L/sec}$
min	gal	min	

(Note: In the original image, 'L' and 'sec' are circled in red.)

Sep 18-8:00 AM

Accuracy

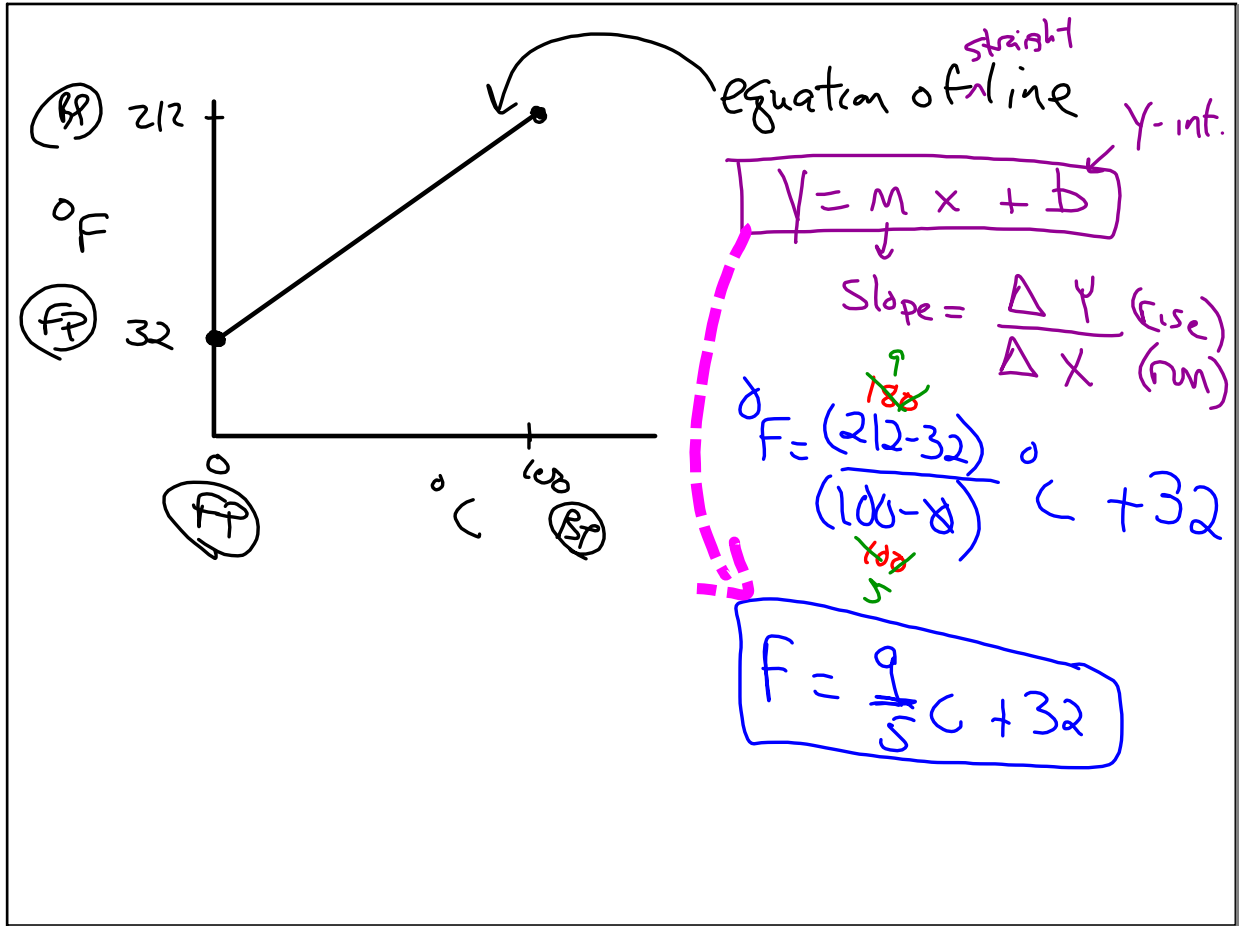
Precision

Precise but not accurate

both precise AND Accurate

Not accurate nor precise

Sep 18-8:20 AM



Sep 18-8:26 AM

<u>Measure</u>	<u>(S.I.) units</u>
mass	Kg
Temp	Kelvin $\left(\frac{PV}{T} \right)$
Volume	L
Length	m
amount of substance	Mole
Time	Sec

$K = C + 273$

Sep 18-8:35 AM

Dr. Zw PA, NP EMF-P ~~800, 114~~ 409.8
405

(Rx) Elixophyllin 6mg/Kg Pt. body mass

— mg Elixophyllin. Pt weighs 150pounds.

Given: $\frac{6\text{mg elix}}{\text{Kg mass}}$ 150pounds = ? mg elix.

<u>6mg Elix</u>	1 Kg	150 pounds	= \approx 409 mg Elix
1 Kg Pt.	2.2 pounds		

Sep 18-8:40 AM

CHAP2 - Atomic Theory

Philosophers Aristotle + Plato

ATOM → Smallest possible part of matter.

Democritus → 1800's

↳ investigation.

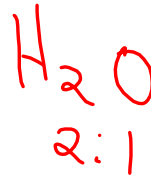
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Dalton → ≈ 1807

4 postulates.

- ✓ ① Every element is composed of atoms
- ✓ ② All atoms of a single element are identical
Atoms of different elements are different.
- ? ③ Atoms are indestructible → No A, No create
No destroy.
- ✓ ④ Compound = combine atoms of elements.

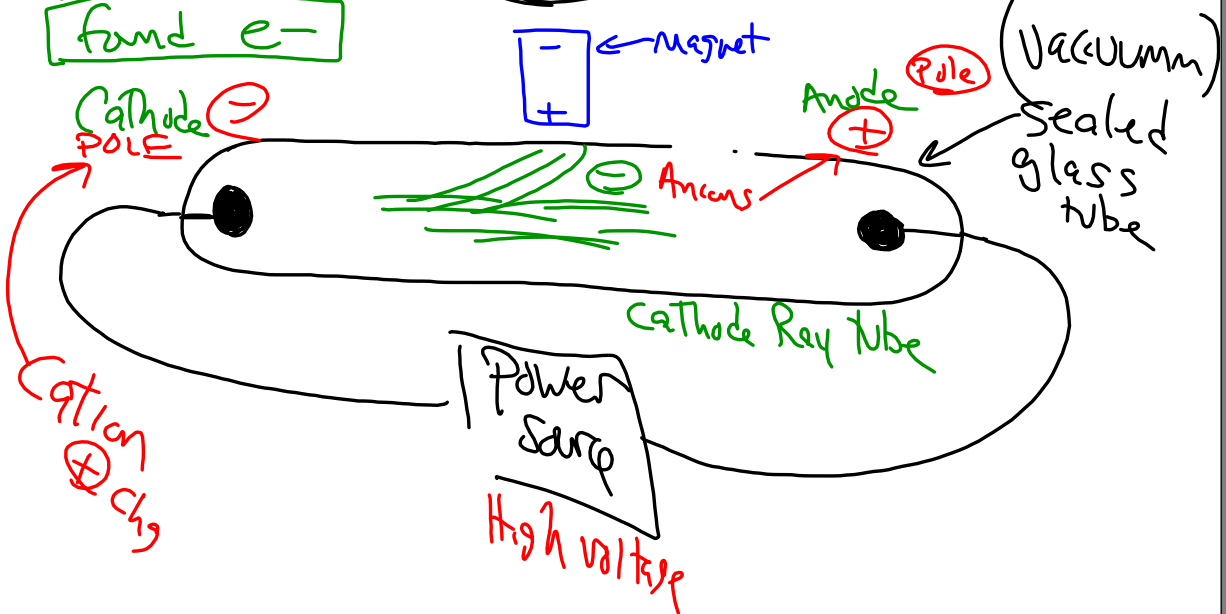
Law of Proportionality



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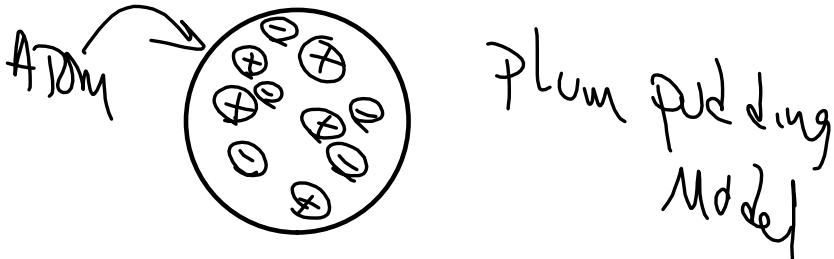
J.J. Thomson (1897) Cathode ray tube.

found e^-



Sep 18-9:03 AM

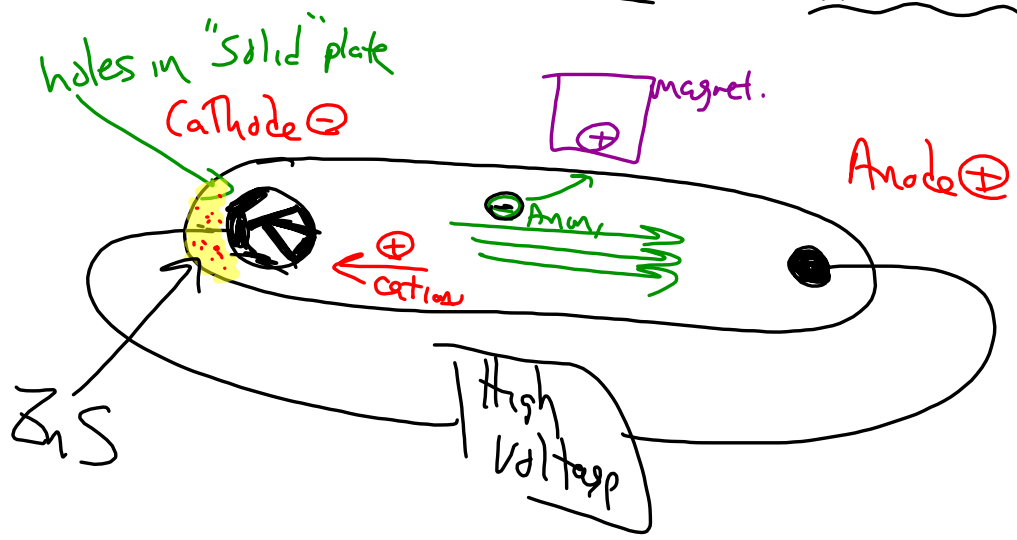
Thompson Found \ominus electrons.
Knows Atom is neutral ϕ
Assume \rightarrow = # \oplus chgs



Plum pudding Model.

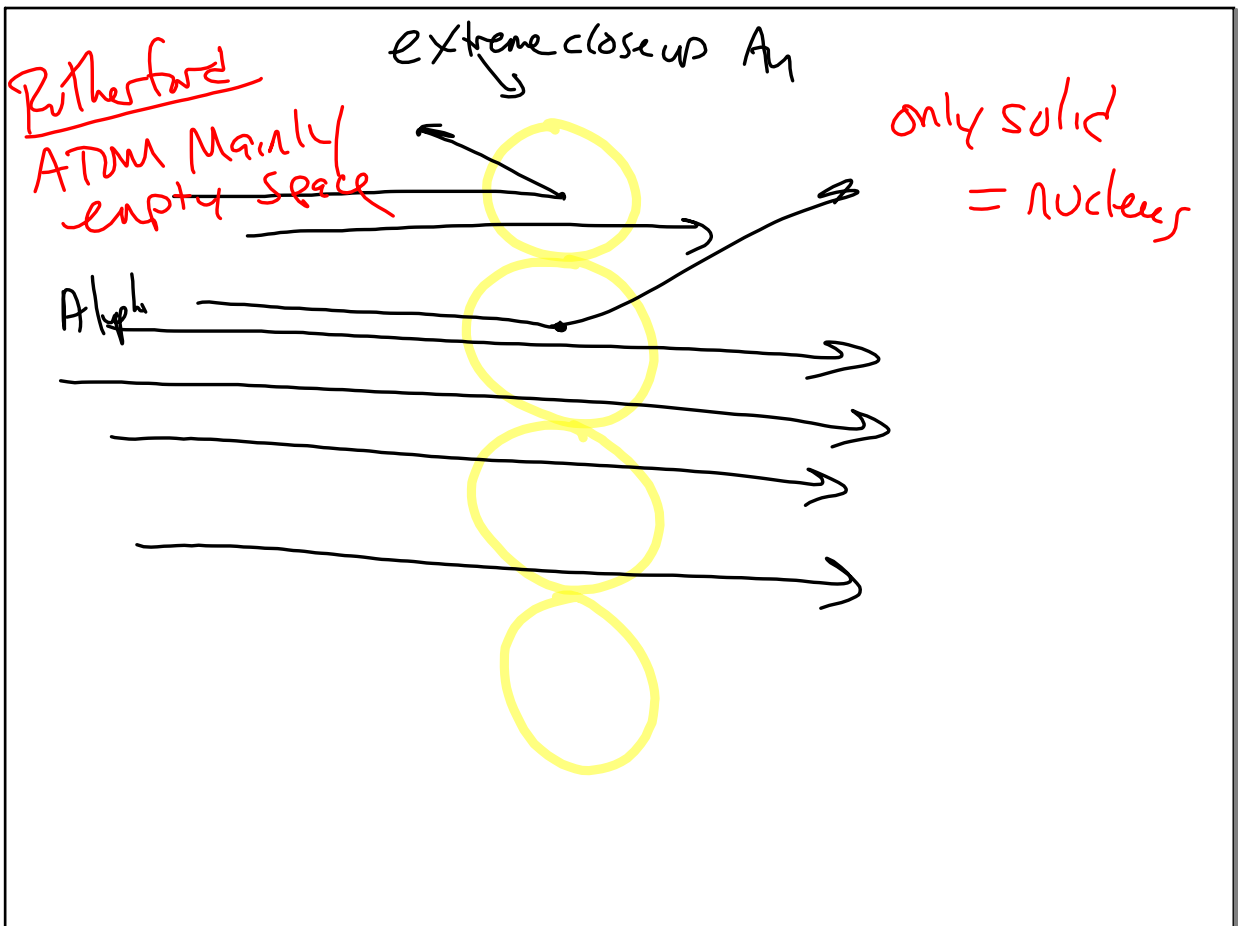
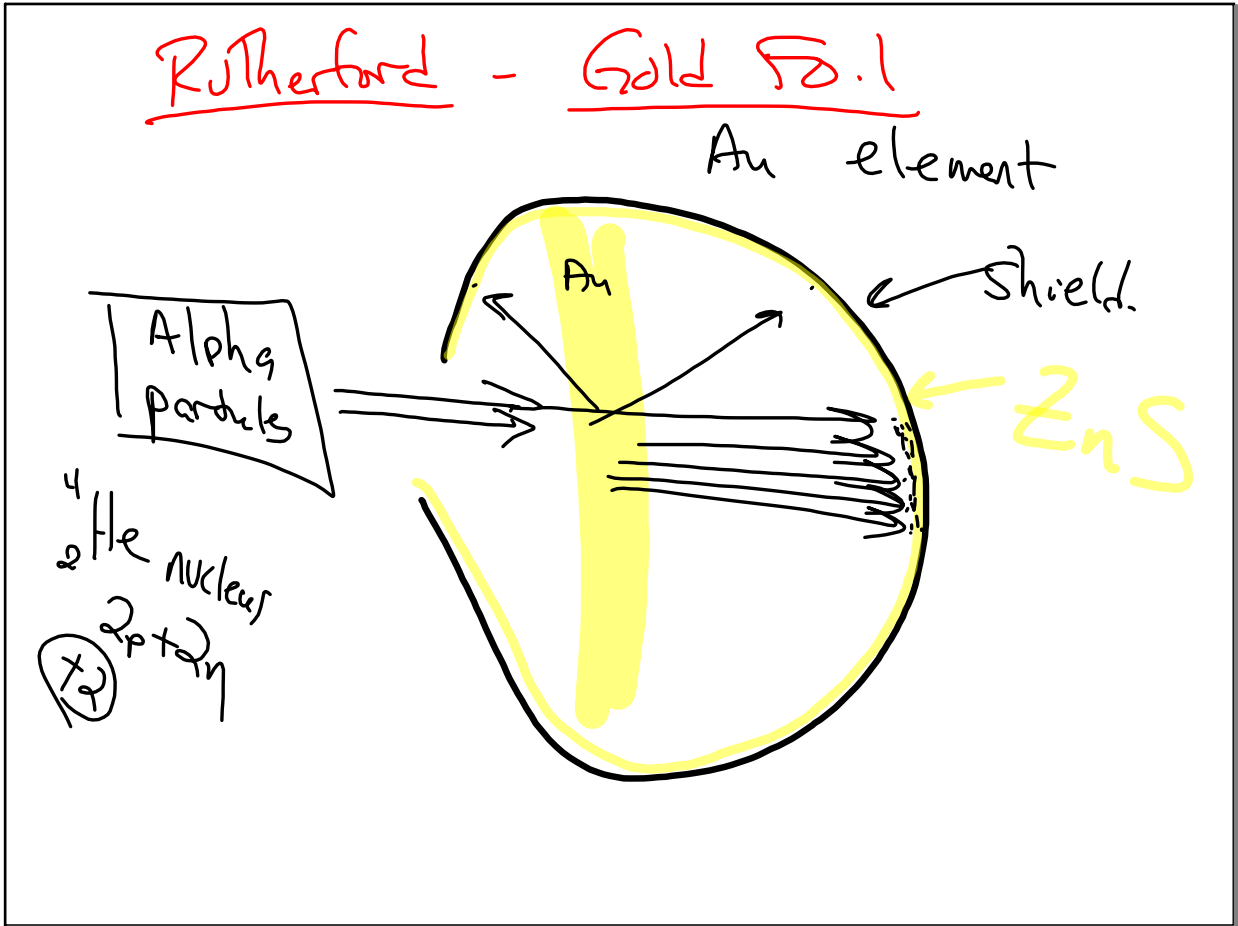
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Modified CRT Goldstein



holes in "solid" plate
Cathode \ominus
Anion
Cation
magnet. \oplus
Anode \oplus
High Voltage
ZnS

Sep 18-9:12 AM



HW 1995 PSI-1

SAW, FLM

Q# 23 → choice (f) a → e

Write in correct ans.

Sep 18-9:31 AM