

An apology...

Sep 21-7:03 AM

Philosophy and Greek Science

Aristotle
↓
peanut butter

✓

Democritus
↓
smallest pieces
↓
atomos
indivisible

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Alchemy \rightarrow philosopher's stone

\rightarrow $A \xrightarrow{K} C \rightarrow D$

Al Cl C O

measurements \rightarrow 2 laws

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Law of Definite Proportions

In a compd the ratio of the masses of elements is constant

$44\text{g CO}_2 \rightarrow 12\text{g C} + 32\text{g O}$
3 : 8

$22\text{g CO}_2 \rightarrow 6\text{g C} + 16\text{g O}$
3 : 8

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Law of Multiple Proportions

If 2 compounds made of same elements
the ratio of element 2 that mixes
w/ 1g of element 1 form a simple
ratio

S₂O

1g S

$$\frac{1g O}{1.5g O}$$

2:3

S₃O

1g S

1.5g O

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Dalton → Atomic Theory

→ everything is made of atoms

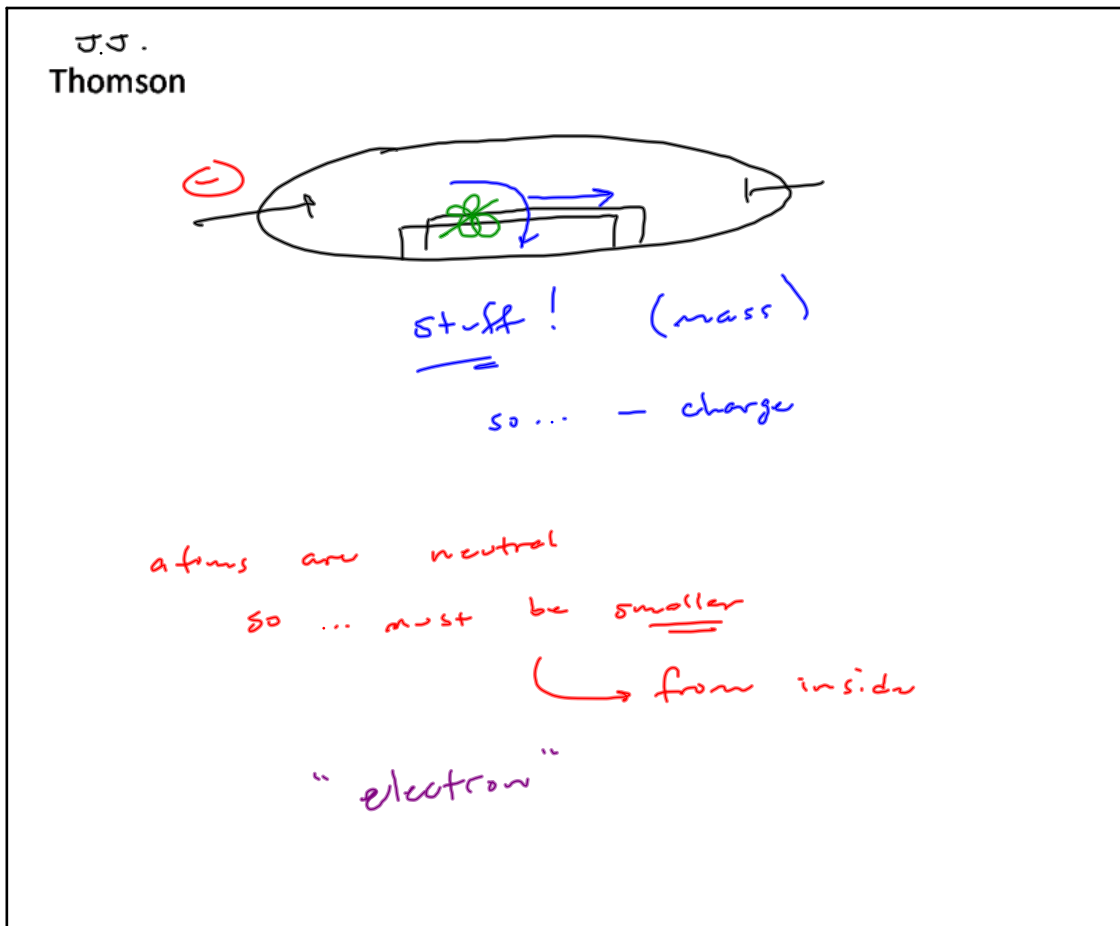
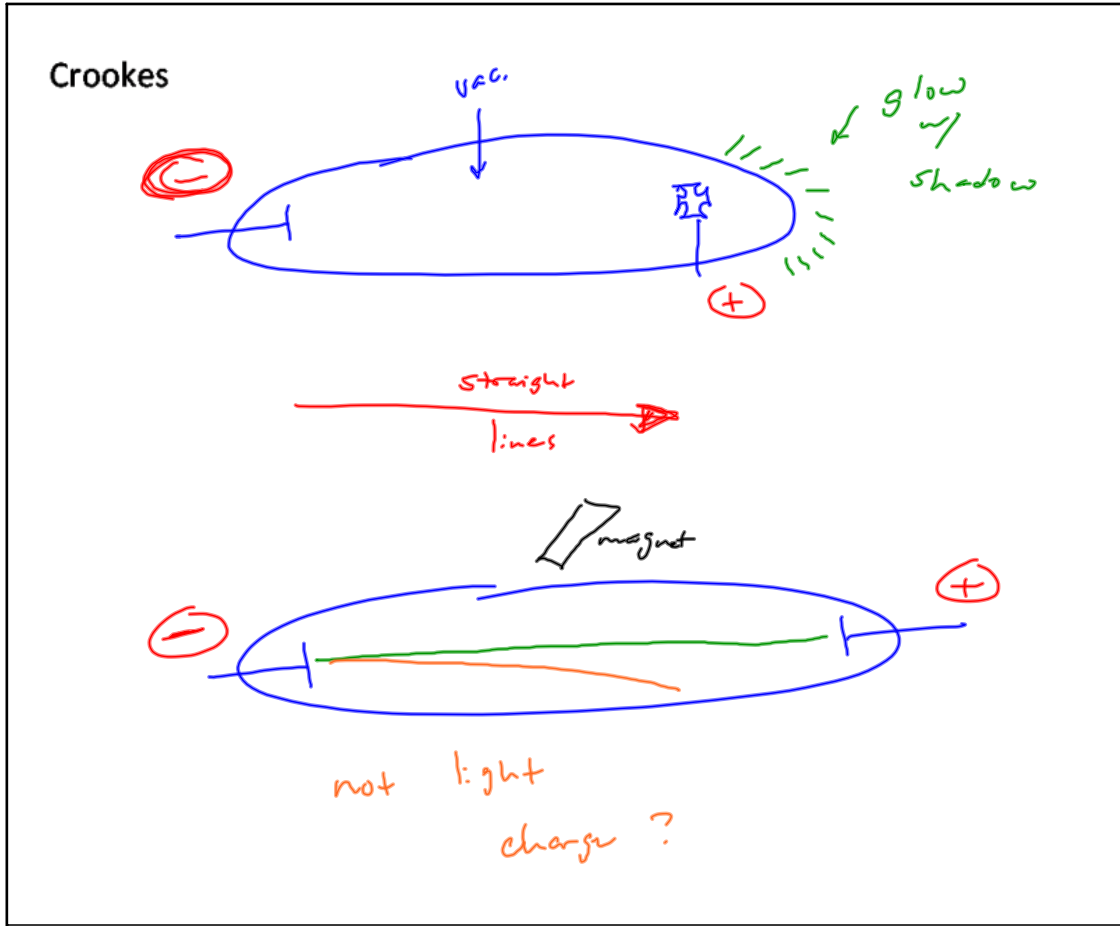
→ atoms are indivisible

→ atoms combine whole # ratios

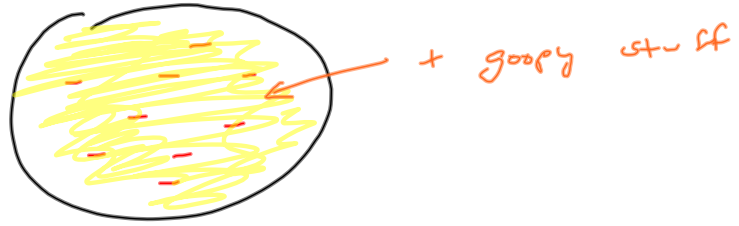
→ all atoms of same element
are the same

→ combining or rearranging atoms

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Thomson's Atom



Plum Pudding Model

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