

ADD TO IT NOTES

- 1) Go through the following PowerPoint
- 2) **TAKE NOTES** in **BLACK PEN**. And **ONLY** black pen.
- 3) **LEAVE SPACE** around your notes! **VERY** important
- 4) The next day in class we will go over the PowerPoint with more details added, and I will point out the key information
- 5) During step #4 you will **ADD TO YOUR NOTES** using a **GREEN PEN** that I will give you.

Just ONE suggestion on how to chunk your notes so you have space – always quickly flip through the PPT to get an idea of how much space you will need!

Target: I can use scientific notation and metric conversion to think about how small the atom is

Measuring the atom

Videos to watch in class

Parts of the atom

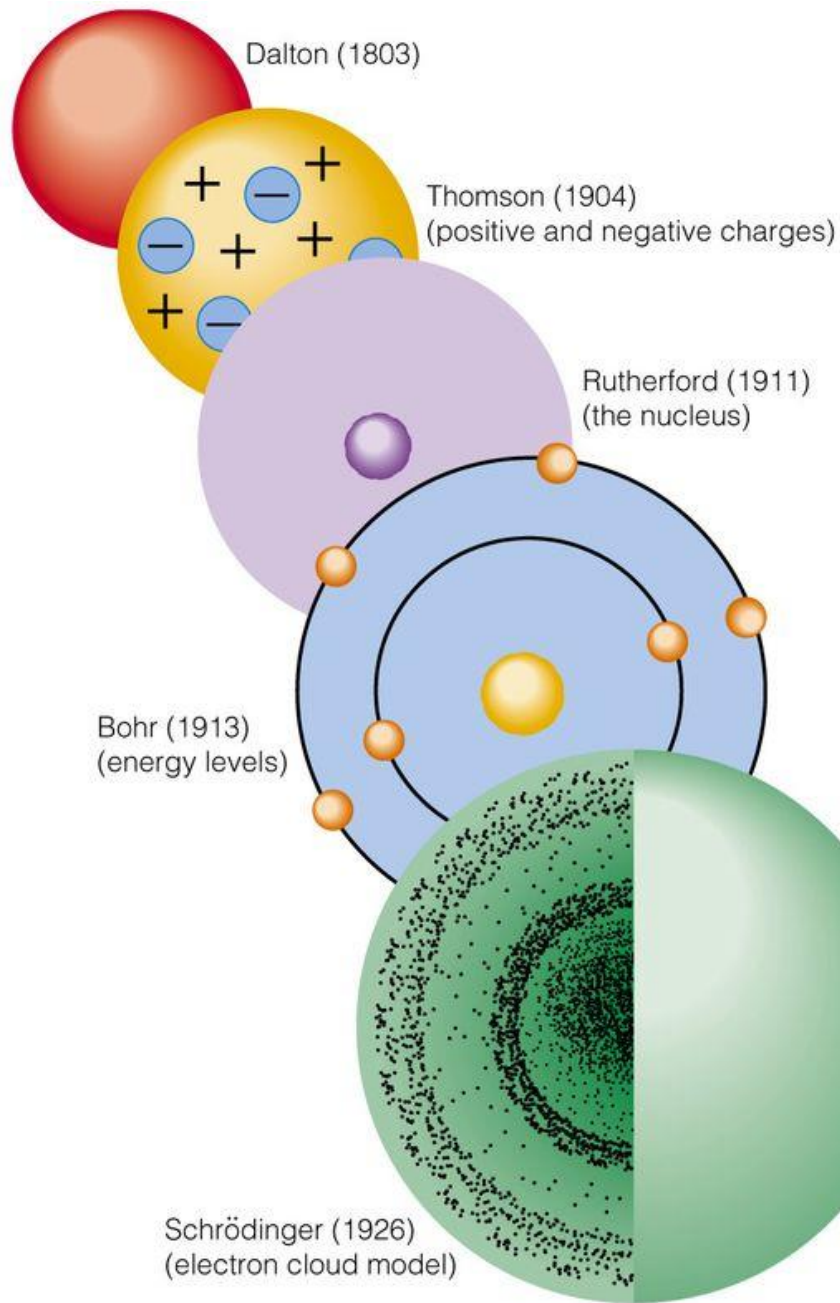
Add To It Questions

K

C

Q

Measuring the Atom



Atoms do NOT have tangible outer shells! So how do you know the diameter?! You cant measure to an edge that doesn't exist!

Nuclei ARE tangible!

**SAVE SPACE TO
ADD TO DURING
CLASS**

Put two identical atoms RIGHT next to each other and measure between the nuclei.
Divide by two!

Parts of the Atom

**SAVE SPACE
TO ADD TO
DURING
CLASS**

Protons and Neutrons are basically the same mass

Electrons are TINY!!!

VIDEOS TO WATCH IN CLASS

<https://www.youtube.com/watch?v=EMLPJqeW78Q>

<https://www.youtube.com/watch?v=yqLlglaz1L0>

<https://www.youtube.com/watch?v=6leeshkVATY>

ADD TO IT QUESTIONS – Things to think about it before class...Answer the following questions in your notes before class. You do NOT have to copy the questions!

QUESTION #1

Why would it be difficult/annoying/silly to use Standard Notation to measure parts of the atom? Why is Scientific Notation better?

QUESTION #2

Do we measure the diameter of the earth in inches? Why not? What should we measure it in?

QUESTION #3

If someone gave you the size of an atom in kilometers could you convert it to meters? Why would we use meters and not millimeters or an even smaller unit?