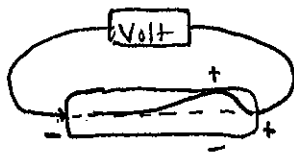


MODERN ATOMIC THEORY

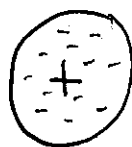
1. What is a Cathode Ray Tube?



- gas in tube
- turn power on - gas aligns to electrical current
- place magnet around
- gas bends to positive magnetic field

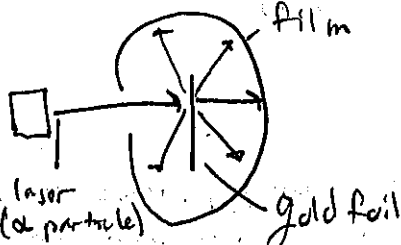
2. What was the significance of the Cathode Ray tube experiments?

- found electrons, placed in a positive sphere



plum pudding model

3. Briefly describe the set-up of Rutherford's Gold Foil Experiment.



- shot laser at very thin gold foil
- 90% laser went through gold foil
- 10% was deflected

4. What were the two major conclusions that Rutherford made from his Gold Foil Experiment?

- 90% of the atom is empty space (electron cloud)
- 10% of the atom is dense, positive mass (nucleus)

