

New notebook system:

everything on the SCREEN IS NOTES goes onto right pages

everything on the CHALKBOARD IS PRACTICE goes onto left pages

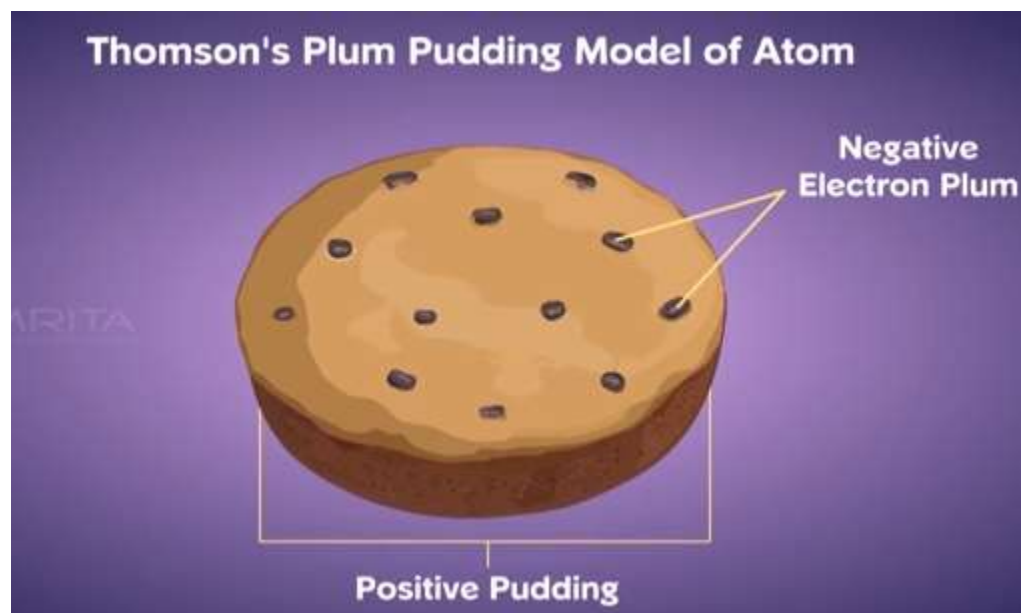
Day 3, Unit 6, January 27, 2016

Purpose:

..Use the Thomson model of the atom to account for the fact that neutral atoms can become either positively or negatively charged by the loss or gain of electrons.

WARMUP :

Copy this drawing and all the words






1) Words for our drawings

Neutral Atom: has equal amounts of positive and negative

Ion Is not neutral. It either has extra + or extra -

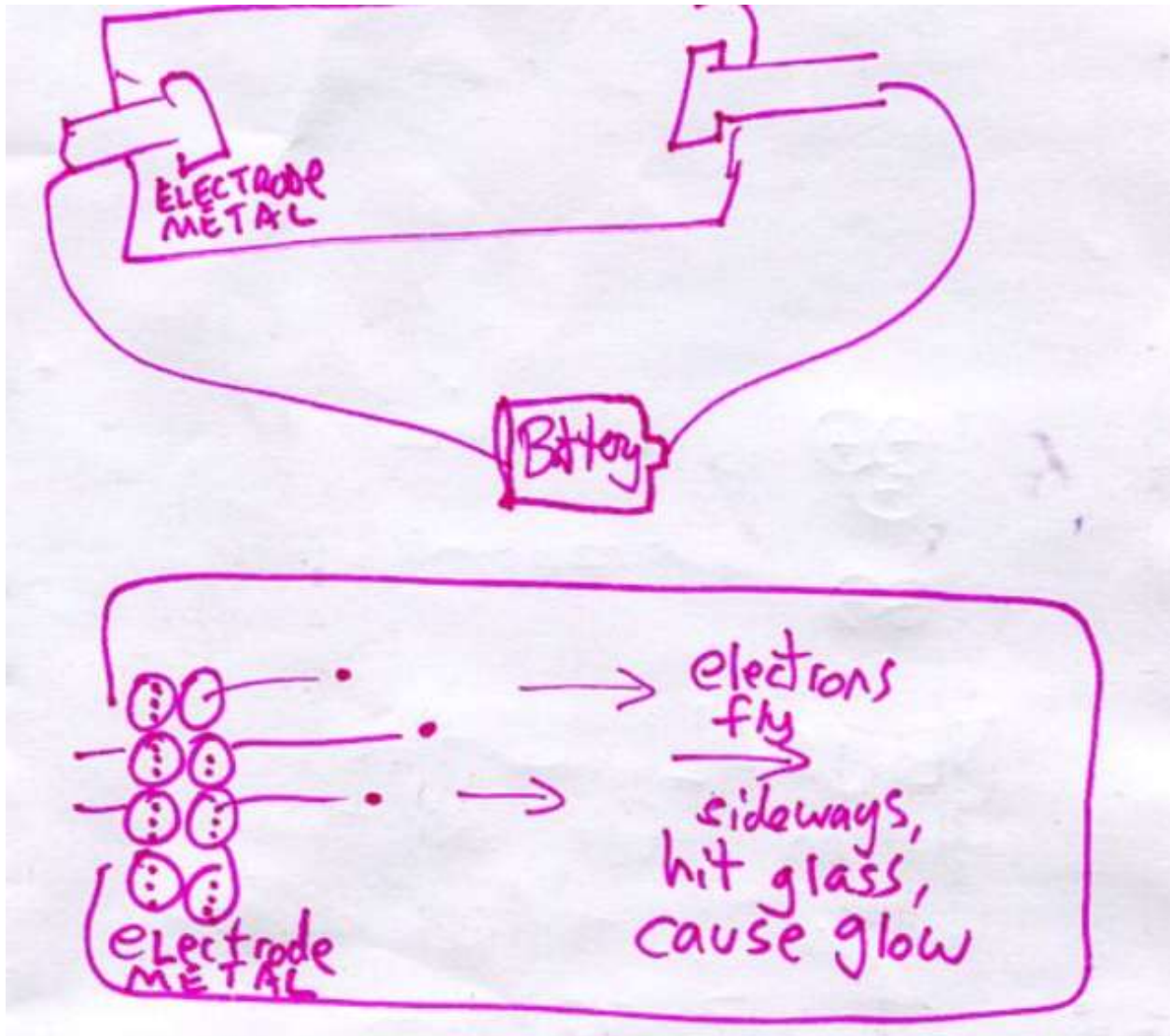
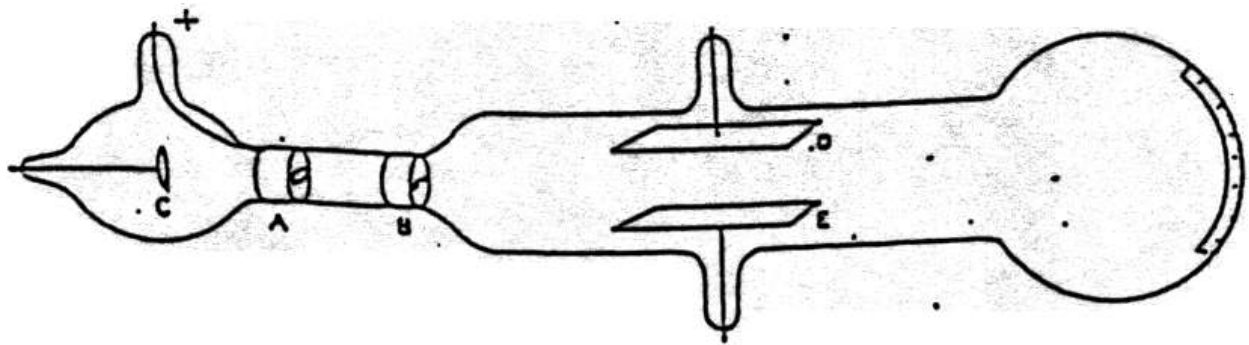
Cation is an ion that is POSITIVE

Anion is an ion that is NEGATIVE

neutral atom of element "X"	 Neutral	 ANION	 CATION
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2) Important features of Thomson's Tube

(this is Thomson's actual drawing from 120 years ago!)



3) Observations we see in Thomson's glowing tube:

- something is flying to the right
- unlike light, its path can be bent by a magnet
- it is attracted to POSITIVE things
- we can make point X out of almost any substance and the tube still works

4) What we conclude:

- the stream is particles not light, not something mysterious
- the particles are negative
- most matter contains these small, negative particles