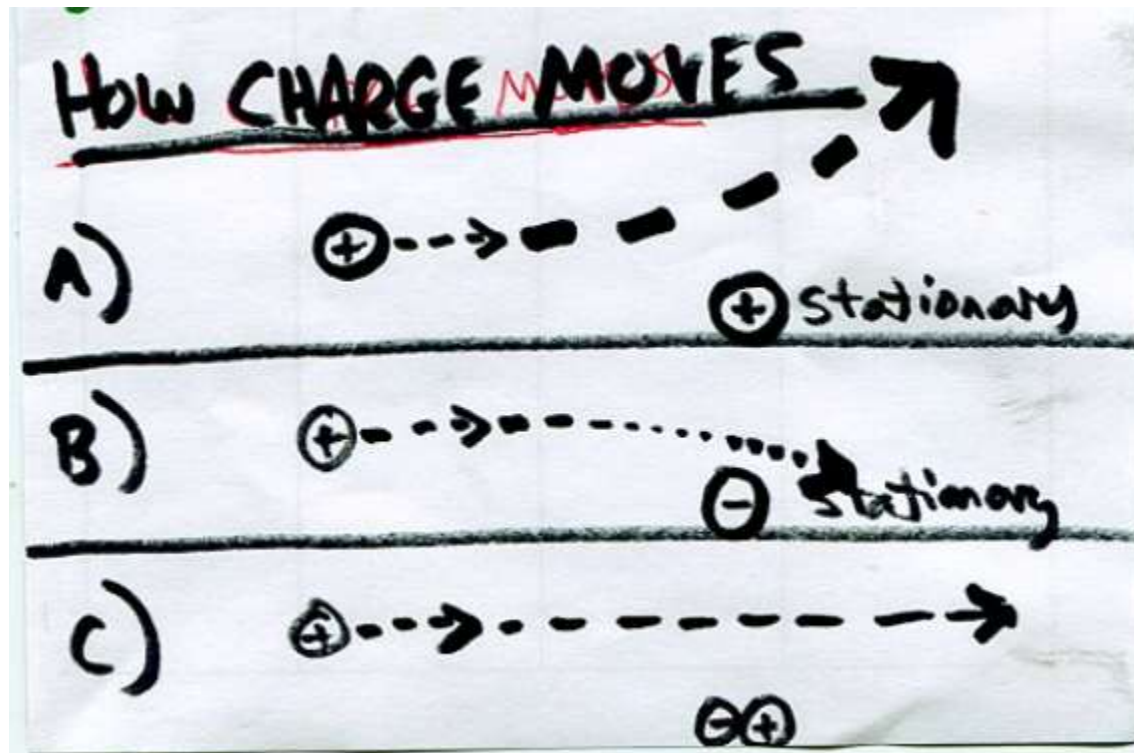


help yourself to some raisins & oatmeal

Purpose: What was JJ Thomson's Plum Pudding model of the atom?

How charge moves:



Explanation:

A) like charges repel

B) opposite charges attract

C) neutral objects neither attract nor repel

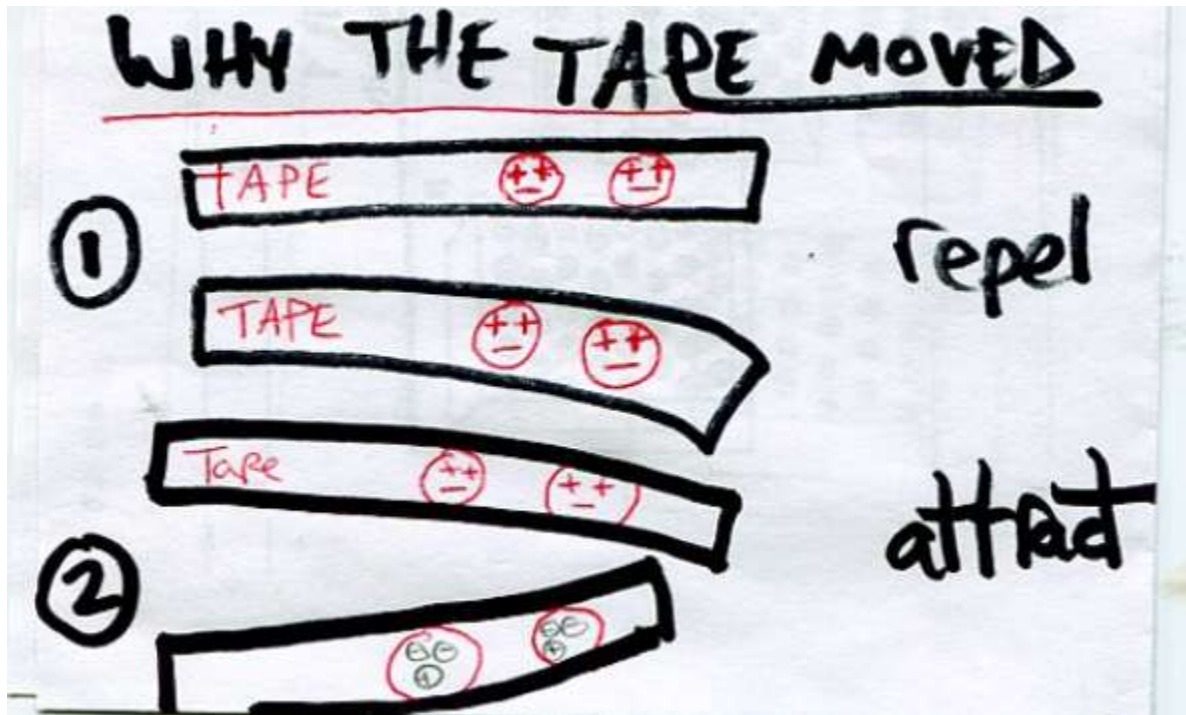
Evidence that electrons exist:

1. rubbed fur, peeled tape, rubbed amber all attract and repel charged objects
2. electricity can be seen to move through a pickle connected to nails and 120 volt current
3. (most importantly) high voltage electricity shoots particles through a glass tube. by bringing a charged object or magnet nearby it can be shown that the particles shooting along the tube are negative.

Be able to use a Plum-Pudding style model of the atom to explain why the

tape attracted and repelled in

Tuesday's lab:



John Dalton's discovery:

He invented the concept of elements.

All matter is made of elements.

To create a new substance, you don't need new elements, you just need to rearrange the elements you already have.

JJ Thomson's discovery:

1. The total charge of an atom is neutral.
2. All matter contains a negative particle called an electron.
3. If the atom contains (-) electrons the rest of the atom must somehow be positive, to neutralize them.

- ① ATOMS ARE NEUTRAL.
- ② A NEGATIVE CHUNK CAN BE PUSHED OUT
- ③ THE REST OF THE ATOM MUST BE POSITIVE.

ATOM AT REST



ATOM UNDER HIGH VOLTAGE

