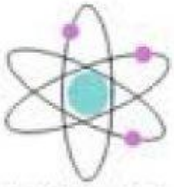
Physics
2nd Partial 1er Trim Sep-Nov

Name:	Date:
Points:	Score:

I. RELATE 2 COLUMNS PROPERLY (4 pts)

Thompson´s Model

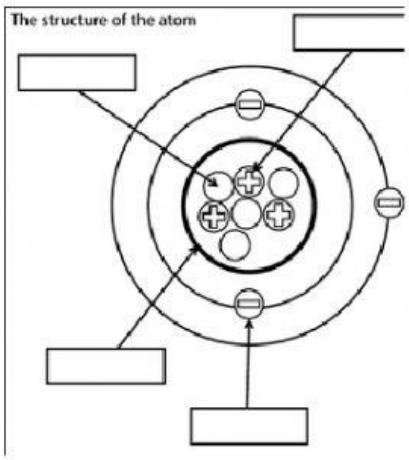
Dalton´s Model



Rutherford´s Model

Bohr´s Model

II. NAME EACH PARTICLE OF THE ATOM. (4 points) (proton, neutron, nucleus, electron)



III. UNDERLINE THE CORRECT ANSWER. (7 points)

1. The charge of the atom is?

a) Positive. b) Negative. c) Neutral d) Unbalance.

2. Protons have a _____ electrical charge.

a) Neutral b) Negative. c) Positive d) Unknown

3. Neutrons have a _____ electrical charge.

a) Neutral b) Negative. c) Positive d) Unknown

4. Electrons have a _____ electrical charge.

a) Neutral b) Negative. c) Positive d) Unknown

5. Is the number of protons found in the nucleus of an atom.

a) Molecule b) Atom c) Atomic Number d) Mass.

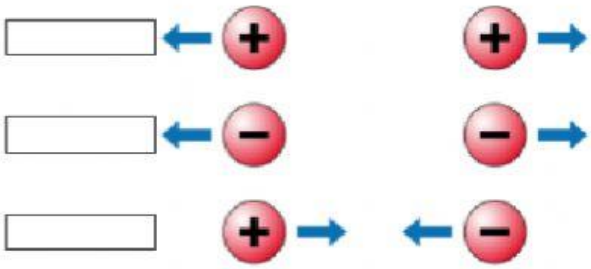
6. Is the atom part where the mass is concentrated.

a) Neutron b) Nucleus c) Proton d) Electron

7. Are atoms that have the same number of protons and electrons but different numbers of neutrons.

a) Molecule b) Heavy atom c) Atomic mass d) Isotopes

IV. ACCORDING TO ELECTRICAL CHARGES LAW WHICH OPTIONS *Repeal* or Attract. (3 points)



V. Please select the situations that best describe the image. (2 pts)

a) When the cat touches the man, an electric discharge occurs, giving him a shock
b) The carpet is covered with electrons
c) As the cat walks, it picks up electric charges

VI. PLEASE RELATE BOTH COLUMNS. (5 points)

1. Is a physical phenomenon caused by the displacement of electrons or ions from one place to another.	Conductors
2. It is the opposition presented by the materials to the passage of electric current.	Current intensity decrease
3. These type of materials have low electricity resistance	Electric current
4. According to Ohm´s Law, it happens when the resistance increases.	Isolators
5. These type of materials have high electricity resistance	Resistance

VII. SOLVE THE FOLLOW PROBLEMS. (4 Points)

1. How much electrical current flows through a resistor with a 65-ohm resistor when a 325 V power supply is connected?

1) 2.5 A 2) 7.5 A 3) 5 A

2. At the endings of a 60 Ω resistor, a voltage of 120V is applied. What would be the value of the electric current?

2) 200 A 2) 2 A 3) 20 A