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|----------------|---------------|
| <b>Name:</b>   | <b>Date:</b>  |
| <b>Points:</b> | <b>Score:</b> |

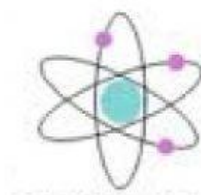
**I. RELATE 2 COLUMNS PROPERLY (4 pts)**



Thomson's Model



Dalton's Model

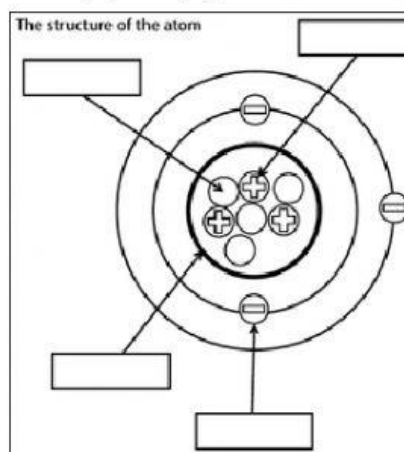


Rutherford's Model



Bohr's Model

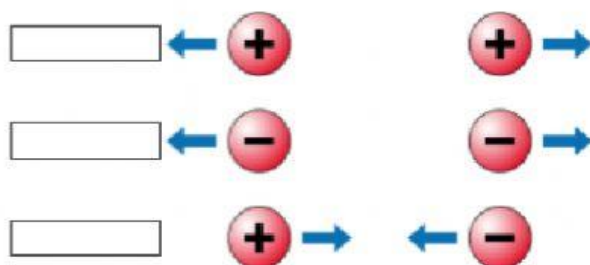
**II. NAME EACH PARTICLE OF THE ATOM. (4 points) (proton, neutron, nucleus, electron)**



### 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  $\Omega$  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