

Name: _____

Matter Vocabulary

1. Elements: Substance that cannot be broken down into a simpler substance. It is made entirely of one atom.

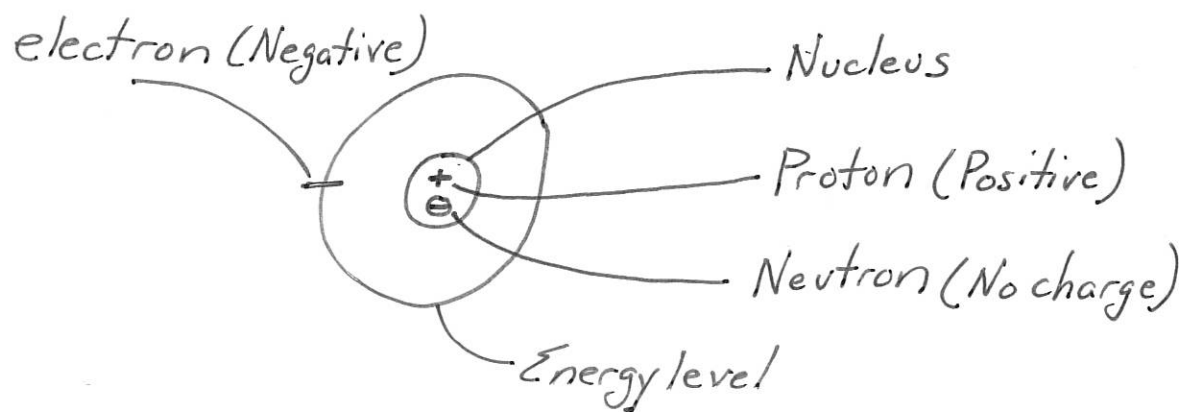
Examples: Hydrogen, Helium, Oxygen, Carbon, & Nitrogen

2. Dmitri Mendeleev: Russian chemist who organized the periodic table as we know it today.

3. Model: A way to describe an idea or thing. For example, it helps us observe a physical object that is difficult to observe directly.

Examples: (Physical Models) Globes, maps, solar system and atom.

4. Atom: Smallest piece of an element.



5. Atomic Number: *The number of protons in an atom. It identifies the atom and the element it is on the periodic table.* 1 - Hydrogen 8 - Oxygen
6 - Carbon

6. Symbols: *Shorthand way to represent something. Symbols are used on the periodic table to represent different elements.*

Examples:

H - Hydrogen
He - Helium
Fe - Iron

7. Subscript: *Number written below an element to show the number of atoms of that element in a molecule.*

Examples:

$C_6 H_{12} O_8$
C - 6 carbon atoms
H - 12 hydrogen atoms
O - 8 oxygen atoms

8. Periodic Table: *A table of elements arranged by atomic number and element families.*

Classifications:

Nonmetal vs Metals
Noble gases, alkali metals, etc.