Science For You- Chemistry and Biology

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# CHEMISTRY

# ELEMENTS

Elements are unique substances that are in their most broken down, simple form. Some elements are gases like hydrogen and other metals like gold. Though, it is much more detailed than that. Most elements have ' nicknames ' that are shorter and easier to be called by.

# ATOMS

Atoms are tiny particles that are the 'building blocks ' of life. They make up every substance or matter. Atoms are made of particles called neutrons, protons, and electrons. The nucleus, a sphere like mass in the center, consist of protons and neutrons. When bonded together, they can make up different molecules. Protons have a positive charge. Neutrons have no, or neutral, charge. Electrons have a negative charge.

# MOLECULES

Covalent bonds are when atoms share electrons. Molecules are bonded atoms. There are different types of bonds like Covalent, Ionic, and Metallic bonds. 1. covalent bonds are when atoms share electrons. 2. Ionic bonds are when one atom gives an electron to another atom. 3. Metallic bonds are when atoms expand electrons over a large space.

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# BIOLOGY

# SYSTEMS

There are many systems in our body that control and help us but there are 5 that stand out. The circulatory system pumps blood from the heart to the lungs for oxygen. The nervous system controls your actions, thoughts, and feelings. The respiratory system controls breathing exchanging oxygen and carbon dioxide. The digestive system absorbs nutrients and energy from food then eliminates it. The skeletal system controls your movement and protects organs.

# DNA

DNA is a complex molecular structure that all living things contain and something your parents pass down to you. It contains genes, information for certain traits that code who you are. DNA also must be able to replicate to create new cells and even pass down information. Your brunette hair, green eyes, freckles, or even bad eyesight are all affected from DNA.

# CELL THEORY

Cell theory consists of 3 statements; 1. All organisms contain cells. 2. Cells are the important building blocks to create organs. 3. All cells originate from previous cells.

NOTES-

These are very simplified notes and information on just the basics of chemistry and biology. Science has always intrigued me, but I never really had a ' push' to pursue it until my sophomore biology class. I love discovering new information on the brain and how our body works. As someone who wants to pursue a career in medicine and help others, I want to understand the basics and learn a little about every branch under science. I hope to inspire young children to explore a little more