

Name _____

Exploring the Diversity of Elements and Molecules in Nature

Short Answer Key

1. The periodic table organizes all known elements based on their properties.
2. An element is a substance made up of one type of atom and cannot be broken down further by chemical means. A molecule, on the other hand, is formed when two or more atoms combine chemically.
3. Water (H_2O) is an example of a molecule that consists of atoms from different elements - hydrogen and oxygen.
4. Elements and molecules combine in various ways to create a wide variety of substances, giving rise to the diversity of matter and life on Earth.
5. DNA (Deoxyribonucleic Acid) is a molecule that carries genetic information and is crucial for the inheritance of traits in living organisms. It contains instructions for the development, functioning, growth, and reproduction of all known living organisms.

