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Elements

An element is a pure substance that is made from a single type of atom. Elements are the building blocks for all the rest of the matter in the world. Examples of elements include iron, oxygen, hydrogen, gold, carbon, nitrogen, and helium.

How many elements are there? There are currently 118 known elements. Of these, only 94 are thought to naturally exist on Earth.

Hydrogen is the most common element found in the universe. It is also the lightest element.

The elements are listed on the periodic table which is found in your homework book.

Each element has its own name and abbreviation in the periodic table. Some of the abbreviations are easy to remember, like H for hydrogen. Some are a bit harder like Fe for iron or Au for gold. For gold the "Au" comes from the Latin word for gold .

Compounds

Chemical compounds are formed when elements are joined by chemical bonds. These bonds are so strong that the compound behaves like a single substance. Compounds have their own properties that are unique from the elements they are made of. A compound is a type of molecule with more than one element.

H₂O = water - all living things need to survive

CO₂ = carbon dioxide - bubbles in soda

NH₃ = ammonia - cleaning surfaces

C₂H₄O₂ = vinegar - salad dressing