

ELEMENTS AND COMPOUNDS

GENERAL SCIENCE

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ELEMENTS AND COMPOUNDS

Elements

- * Matter in its simplest form is called an element.
- The common salt is consisting of elements of **Sodium and Chlorine**.
- ★ Water consists of Hydrogen and Oxygen.

Classification of Elements

- Metals
- Non-Metals
- Metalloids

Atoms

- * The graphite refill used in pencil is made up of element called Carbon.
- ★ We can break the graphite into smaller and smaller pieces.

Molecules

When an atom combines with another atom (or atoms) and forms a compound it is called as molecule.

Compounds

- * A compound is a pure substance that is formed when the atoms of two or more elements combine chemically in definite proportions.
- * Compounds exhibit properties entirely different from the properties of their constituent elements ***

Properties of Compounds

- * A compound is formed only when the constituent elements combine in a fixed proportion.
- * The properties of a compound are different from those of its constituent elements.

Elements represented by single letter symbols

Element	Symbol
Hydrogen	Н
	F
Fluorine	
in *	**7/
r is H2O.	

Chemical Formulae

- * Often we hear that water is H2O.
- * This is the chemical formula for water molecule.
- * This means that each molecule of water has two hydrogen atoms combined with one oxygen atom.

Atomicity

- * In chemistry we usually understand atomicity to imply the total number of atoms present in one molecule of an element, compound or a substance.
- ★ Let we see how to calculate the atomicity of elements.

Elements in air

♦ Air is a mixture of gases. The molecules of two different elements, nitrogen and oxygen, make up about 99% of the air.