

### 1.1| MATTER

Anything which occupies space, has mass and can be felt by our one or more five senses is known as matter. E.g. air, water, iron etc.

#### CLASSIFICATION OF MATTER

Matter can be classified on the basis of their physical and chemical properties as:

##### BASED ON PHYSICAL PROPERTIES MATTER

- 1) Solid
- 2) Liquid
- 3) Gases

##### BASED ON CHEMICAL PROPERTIES

- 1) Elements
- 2) Compounds
- 3) Mixture

Note: In this chapter we shall study about matter based on their physical properties.

### 1.2| PHYSICAL NATURE OF MATTER

#### 1. MATTER IS MADE UP OF VERY-VERY SMALL PARTICLES

Example:

- (a) Dissolving of salt (or sugar) in water: the water and salt (or sugar) both are made up of particles, the particles of salt get into the spaces between particles of water.
- (b) If we take 2ml of dettol we can detect smell even in very dilute solution.

#### 2. PARTICLES OF MATTER HAVE SPACE BETWEEN THEM

After dissolving 50gm salt in 100 ml of water, volume of solution remains 100 ml.

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