

### Name out the characteristics of Matter.

1. volume- The matter **must occupy space**, the space occupied by matter is called volume.
2. Mass- It represents the **quantity of matter**, which can be found by **physical balance**.
3. Weight- It represents the **pull of gravity**, which can be found by **spring balance**.
4. perception by physical senses- It is **perceived by our physical senses**, eg the sense of touch, sense of hearing etc.

### Explain Kinetic Theory of matter

The main **postulates** of this theory are-

1. All matter is composed of **small particles** called **molecules**
2. The particles are in a state of **unending motion or continuous motion**, hence they have **kinetic energy**.
3. With the supply of **heat energy** the **kinetic energy** of the particles **increases** and they start moving more **vigorously**, reverse happens when the **the matter is cooled**.
4. The particles **attract each other** :) always, which can be **cohesive** ( if particles r of same kind) and **adhesive** ( if particles are of different kinds)
5. The force of **attraction** between the particles **decreases** if **the intermolecular space, decreases** and vice versa.

### What are materials, name the kinds of material?

The term used for **particular kind of matter** is called material.

1. Homogenous materials: The materials which have the **same composition** and **same properties** throughout.

examples- **pure common salt**, and **common salt solution**

2. **Heterogeneous materials**- the materials which have **different compositions** and **different properties** in their **different parts**

examples- **Marble rock**, **muddy water**

### solid on the basis of kinetic theory of matter

The **definite shape** and **definite volume** of solids can be explained on the basis of **kinetic theory of matter**.

In case of solids the **kinetic energy** of molecules is **least** and the **force of attraction** between the molecules is maximum.

The molecules of solids, **can vibrate from their mean position** but **cannot migrate from one position to another**.

**Examples** of solids- wood, brick, logs, ice etc.

### What is a substance? give an eg with NACL

A **homogenous mixture** which is made up of only **one kind of atoms** is **called substance**.

example- **sodium chloride** is a **substance** cuz it has **23 parts of sodium** and **35.5 parts of chloride** by **weight** in its **composition**.

similarly, **pure alcohol**, **pure water**, **pure gold** and **silver** are **substances**

### Liquid on the basis of kinetic model

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Not published yet.

Last updated 27th June, 2026.

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