

# STUDY MATERIAL SCIENCE

## CLASS-VII

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## Physical and Chemical Changes

Every day we come across many changes that are taking place all around us. These changes may involve one or more substances. Sometimes, milk becomes sour. Souring of milk is a change. Making a sugar solution is a change. Similarly, setting of curd from milk is a change.

Some changes that we have noticed around us are melting of ice, making of ice cream, melting of wax, stretching a rubber band, evaporation of water, cutting of paper, breaking of glass pane, bending of glass tube by heating, boiling of water, sublimation of camphor, etc.

▶ Broadly, these changes are of two kinds:

- Physical changes
- Chemical changes

▶ Physical Changes :

In a physical change, a substance undergoes changes only in its physical properties such as shape size colour and state, and no new substance is formed.

▶ Characteristics of Physical Changes :

The important characteristics of physical changes are as follows:

- No new substance is formed in this change.
- It is a temporary change and is mostly reversible.
- A temporary change in colour may take place.
- Very little energy (heat, etc) is either absorbed or evolved.

▶ ASSIGNMENT :

1. Mention some changes observed in daily life.
2. Mention the two types of change.
3. Write a short note on Physical Change.
4. Write the characteristics of Physical changes.