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Matter and Materials



Learning Objectives

After completing this lesson students will be able to:

- ❖ know about matter and materials.
- ❖ understand the process of manufacturing fabrics.
- ❖ know the varieties of grains and the food products.
- ❖ understand why do things float or sink.



Introduction

Our needs have increased in the modern days and we use number of things in our daily life. We get some of them from the nature and some other things are manufactured artificially. The things you use like pen, pencil, ink, eraser, note book, ball and the food you eat, all have different nature and characteristics. They are obtained by transforming the natural and artificial substances. In this lesson we will study about different things used in our life and how they are obtained.



I. States of matter

Matter is anything that has mass and occupies space. Matter can exist in three physical states: solid, liquid and gas. It is made up of molecules and the molecules are made up of atoms.

❖ Solid

In solids molecules are very closely arranged. Solids are incompressible. They have definite shape, size and volume.

❖ Liquids

In liquids molecules are loosely packed. Hence, liquids are negligibly compressible. They have definite volume, but no definite shape and size.