

4

Kinds of Material

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ✧ objects around us
- ✧ properties of materials
- ✧ solubility, density and transparency of materials
- ✧ magnetic and nonmagnetic materials
- ✧ need for classifying objects

TEACHING AIDS

Pictures/charts/models/animation on objects of different shapes and sizes; made of metal, plastic, glass, paper, wood and leather; magnet (all as given in the chapter).

LESSON PLAN

- ✧ Teacher will start the lesson with ‘Science Vocabulary’ section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ The teacher should discuss the grouping of objects on the basis of materials they are made of by performing Activity 1.
- ✧ The teacher should explain that objects are made of different materials, and also different objects are made of same material.
- ✧ The teacher should explain the properties of materials (as described in chapter).
- ✧ The teacher should discuss to categorise objects as lustrous and nonlustrous by performing Activity 2 in the class.
- ✧ The teacher should explain to categorise objects as soluble and insoluble with the help of Activity 3.
- ✧ The teacher should discuss the concept of floating and sinking and categorise objects based on them with the help of Activity 4.
- ✧ Students should also be taught the property of transparency by performing Activity 5.
- ✧ The teacher should also discuss insulators and conductors of heat and electricity as well as magnetic and nonmagnetic materials.

- ✧ The teacher will help the students to solve the questions given in exercises under the head 'Let's Drill Our Skills' and to complete the flowchart given under the head 'Let's Memorise'.

BOOST UP

- ✧ First, the teacher should make some groups of students. Now, teacher should write names of four to five different objects on the board. Then he/she should call one student from each group and ask to name the materials used for making the objects written on the board. The group of students, who will give correct name of all the given objects, will be declared as the group of intelligent students by the teacher.
- ✧ The teacher should also ask the students to name lustrous and nonlustrous objects.
- ✧ Students should be asked to name two soluble materials and two insoluble materials.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- ✧ different materials used to make different objects.
- ✧ categorisation of objects based on the properties of the materials they are made of.
- ✧ necessity of categorisation of objects.

EVALUATIVE QUESTIONS

The teacher may ask the following questions for evaluating the learning and understanding of students:

1. Name four materials by which an object can be made?
2. What is meant by classification?
3. Name two objects each of lustrous and nonlustrous materials.
4. Is carbon dioxide soluble in water?
5. Name the objects through which only partial light can pass.
6. What is the need for classifying objects?