

Science
Class - VI
Ch - 4 , Sorting materials into groups
HOTS questions

1. Why is mercury used in making thermometers?

2. Write three common characteristics of materials.

3. Why is tumbler not made with a piece of cloth?

4. "Grouping of objects helps the shopkeeper." Justify the statement.

5. Describe a method to prove that water is a transparent material.

6. Why some metals like iron or copper lose their lustre on exposure to air?

7. You are provided with three liquids-water, honey and oil. On pouring the three liquids simultaneously without disturbing. What will be the arrangement of these liquids from top to bottom?

8. Shreya while playing with her elder brother in the garden pool, observed that a wooden block sinks
in water but a wooden plank of same weight floats on water. She was very astonished on seeing this.
Shreya's brother on seeing such question mark on her face explained the reason.
(a) What is density?

(b) Why some substances float while other sink in water?

(c) Why the wooden plank float on water while the wooden block sink in water though both have same weight?

(d) What value of Shreya is shown here?

9. Ram and Shyam, both friends, opened a new grocery shop. They bought many materials from the main market. Shyam arranged all items systematically based on their similarities and differences. Ram did not arranged the items. He just put them randomly according to the available space in his shop.

(a) What is the significance of grouping items?

(b) Suppose you are a grocer, how will you arrange items in your shop?

(c) Who do you think will be able to locate things in their shop easily-Ram or Shyam? Why?

(d) What values of Ram and Shyam are shown here?

10. Name a material which is actually opaque but you can make it translucent with a little effort.
