NCERT Solution

Changes around Us
Exercise

1. **To walk through a waterlogged area, you usually shorten the length of your dress by folding it. Can be reversed?**

Answer:

Yes. This change can be reversed.

2. You accidentally dropped your favorite toy and broke it. Can this change reversed?

Answer:

No. This change cannot be reversed.

3. Some changed are listed in the following table. For each change, write in the blank column whether the change can be reversed or not?

S.No	Change	Can be reversed (Yes/ No)
1	**The sawing of a piece of wood**	
2	**The melting of ice candy**	
3	**Dissolving sugar in water**	
4	**The cooking of food**	
5	**The ripening of a mango**	
6	**Souring of milk**	

Answer:

S.No	Change	Can be reversed (Yes/ No)
1	The sawing of a piece of wood	No
2	The melting of ice candy	Yes
3	Dissolving sugar in water	Yes
4	The cooking of food	No
5	The ripening of a mango	No
6	Souring of milk	No

4. A drawing sheet change when you draw a picture on it. Can you reverse this change?

Answer:

If the picture is drawn a pencil, then it can be erased, hence change can be reversed.

But if picture is drawn with colour, the change cannot be reversed.

5. Give example to explain the difference between change that can or cannot be reversed.

Answer:

A reversible changes in which a substance undergo changes and can be recovered in it original form.

Some changes can be reversed, like,

(1) Filling water with glass.

(2) Opening\Closing of door.

(3) Folding of paper

(4) Stretching of rubber to its normal size

(5) The melting of ice candy

(6) Dissolving sugar in water

An irreversible changes in which a substance alter and cannot be recovered in it original form.

Some change cannot be reversed, like,

(1) Cording of milk

(2) Ripening of fruit

(3) Cooking of food

(4) Burning of fuel

(5) Cutting of paper

(6) Cow dung to biogas

6. A thick coating of a paste of plaster of Paris (POP) is applied over the bandage on a fractured bone. It becomes hard on drying to keep the fractured bone immobilised. Can the change in POP be reversed?

Answer:

No. The change in POP cannot be reversed because POP gets converts into calcium carbonate in presence of oxygen.

7. A bag of cement lying in the open gets wet to rain during the night. The next day the sun shines brightly. Do you think the changes which have occurred in the cement could be reversed?

Answer:

No. the changes which have occurred in the cement cannot be reversed.