Egyanbodh by Kishan Rawat An Enlightening Path of Knowledge

NCERT Solutions for Class 6th Science **Chapter 6 - CHANGES AROUND US**

- To walk through a waterlogged area, you usually shorten the length of your dress by folding it. Q.1 Can this change be reversed?
- Yes, one can unfold the dress to make it long. So this change can be reversed. Ans
- You accidentally dropped your favourite toy and broke it. This is a change you did not want. Can Q.2 this change be reversed?
- No, this change can not be reversed. It is an irreversible change. Ans

Q.3 Some changes 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	
Ans S. No.	Change	Can be reversed (Yes/ No)
Ans S. No.	Change The sawing of a piece of wood	Can be reversed (Yes/ No) No
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1.	The sawing of a piece of wood	No
1. 2.	The sawing of a piece of wood The melting of ice candy	No Yes
1. 2. 3.	The sawing of a piece of wood The melting of ice candy Dissolving sugar in water	No Yes Yes

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- Q.4 A drawing sheet changes when you draw a picture on it. Can you reverse this change?
- Ans If the picture is drawn with something like pen which can not be erased, the change is irreversible. Whereas if the picture is drawn with something like pencil which can be erased, the change is reversible.
- Q.5 Give examples to explain the difference between changes that can or cannot be reversed.
- **Ans** (i) On blowing a balloon, its shape and size gets changed. However, the original size and shape of the balloon can be obtained back by allowing the air to escape from the balloon. Hence this change can be reversed.

But if the balloon bursts, then its original size and shape cannot be obtained back. Hence this change cannot be reversed.

(ii) If we fold a piece of paper, its shape and size gets changed. However, the original size and shape of the paper can be obtained back by unfolding it. Hence this change can be reversed.

But if we cut the piece of paper, then its original size and shape cannot be obtained back. Hence this change cannot be reversed.

(iii) After we roll out a roti from a ball of dough, it can be converted back into a ball of dough. Hence this change can be reversed.

But if we bake roti on a tawa, then it cannot be converted back into a ball of dough. Hence this change can not be reversed.

- Q.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?
- **Ans** No. Change in POP can not be reversed.

When water is added to Plaster of Paris (POP), it undergoes a chemical change and gets converted to a substance which hardens on drying. This hardened substance can not be changed to original state. Hence this change cannot be reversed.

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- Q.7 A bag of cement lying in the open gets wet due 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?
- **Ans** No. Cement after reacting with water gets hardened and this hardened substance can not be changed to original state. Hence this change cannot be reversed.