# **Changes Around Us**

#### Fill in the blanks: -

1.	Most physical changes can be
2.	Most chemical changes are and
3.	action helps in moving the liquid wax up the wick.
4.	During a chemical change, a is formed.
5.	The process by which a gas changes directly into a solid is called
6.	During rusting, iron reacts with and to form iron oxide.
7.	When a candle burns, the wax undergoes a process called, producing
	and water vapor.

## Define the following: -

- 1. Reversible change
- 2. Irreversible change
- 3. Physical change
- 4. Chemical change
- 5. Chemical reaction
- 6. Reactant
- 7. Product
- 8. Catalyst
- 9. Activation energ
- 10. Capillary action
- 11. Expansion
- 12. Contraction

### Write true or false and correct the incorrect statement: -

- 1. All physical changes are reversible.
- 2. When two substances are mixed, it is always a chemical change.
- 3. All irreversible changes are chemical changes.
- 4. Dissolving of sugar in water is a chemical change.
- 5. All the three states of water are reversible change.
- 6. Gases expand more than solids on heating.

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### Answer the questions: -

- 1. What are some of the reasons/ causes of changes around us?
- 2. What are the different affects of changes around us?
- 3. Why are changes important?
- 4. What are reversible changes? Explain with an example.
- 5. What are irreversible changes? Explain with an example.
- 6. Why some changes are reversible and some irreversible?
- 7. Suggest two changes which are irreversible and yet the molecular structure does not change.
- 8. Give two examples of physical changes which are reversible.
- 9. Give two examples of physical changes which are irreversible.
- 10. What is a physical change? Give 5 types of physical changes.
- 11. What is a chemical change? give 2 examples of chemical change?
- 12. Write differences between the physical and chemical changes.
- 13. What is a catalyst? Explain with an example.
- 14. What is capillary action? Explain with an example
- 15. Explain how a burning candle is an example of both physical and chemical change?
- 16. Why electric wires between the electric poles are hung loosely?
- 17. Mention two examples where expansion and contraction is used.
- 18. The lid of the jam bottle is not opening. How can you open the same using a principle you have studied in this chapter.....
- 19. What's the main difference between a physical change and a chemical change?
- 20. Give an example of a physical change you might see in your kitchen.
- 21. Describe a chemical change that occurs in nature.
- 22. When you break a glass, is it a physical or chemical change? Explain your answer.
- 23. Why might it be important to know whether a change is physical or chemical?
- 24. Describe a chemical change that happens when mixing substances you might find at home.
- 25. How can you tell if a chemical change has occurred when mixing substances?
- 26. Why is it important to understand the changes that occur when mixing different substances?
- 27. Maria noticed that her bicycle's chain had developed a reddish-brown coating after being left out in the rain. What scientific process is responsible for this change?
- 28. During a camping trip, Sam observed that the morning dew disappeared as the sun rose. What type of change is this, and what causes it?

29. In a kitchen experiment, Lisa mixed vinegar and baking soda, causing a fizzy reaction. Is this a physical or chemical change? Justify your answer.

## State whether the following is a physical change or a chemical change.

- 1. Mixing water and salt
- 2. Setting of milk to form curd
- 3. Rusting of iron
- 4. Melting of chocolate
- 5. Growth of a plant or an animal
- 6. Grinding of wheat
- 7. Burning of wood
- 8. Cow dung to make bio gas
- 9. Ripening of mango
- 10. Burning of wood

State whether the following is a reversible change or an irreversible change.

1. Mixing sugar and water

- 1. Mixing sugar and water
- 2. Melting of iron
- 3. Deflating a ball
- 4. Seed growing into a sapling
- 5. Blooming of a flower
- 6. Curdling of milk to make chees
- 7. Burning of wax
- 8. Growth of hair
- 9. Cooking food
- 10. Baking of a clay pot

State the changes -physical, chemical, reversible and irreversible in the following (can be more than one)

- 1. Breaking of glass tumbler
- 2. Change in the size of an eraser when used
- 3. Expansion of metal on heating
- 4. Decay of plants and animals
- 5. Change of day and night

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