

Chapter- 2

PHYSICAL AND CHEMICAL CHANGES

WORKSHEET

SECTION-A

- Q.1** Oscillation of simple pendulum is _____ change.
(A) periodic (B) non-periodic (C) slow (D) None of these
- Q.2** Cutting of cloth by a tailor to stitch a dress is :
(A) Physical (B) chemical (C) both (D) none of these
- Q.3** Chopping banana peels to cook food is
(A) Physical change (B) both physical and chemical
(C) chemical change (D) Neither
- Q.4** Classify the following as physical and chemical changes:
(A) Adding salt with sugar solution.
(B) Making dough from flour.
(C) Dropping a piece of Na metal in water
(D) Making an Amirah from wood.
- Q5.** Categorize the following changes as physical or chemical :
a) Tearing a paper
b) adding lemon in soda
c) frying onion peel
d) dissolving sugar in milk
e) rusting of Iron

Q.8 ASSERTION & REASON TYPE

Each question contains STATEMENT-1 (Assertion) and STATEMENT-2 (Reason). Each question has 5 choices (A), (B), (C), (D) and (E) out of which ONLY ONE is correct.

- (A) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1.
(B) Statement-1 is True, Statement-2 is True; Statement-2 is not a correct explanation for Statement-1.
(C) Statement -1 is True, Statement-2 is False.
(D) Statement -1 is False, Statement-2 is True.
(E) Statement -1 is False, Statement-2 is False.

Statement 1- Ripening of fruit is a chemical change.

Statement 2- It is due to change in chemical composition of substances.

- Q.9** Explain how the given reaction is both a chemical as well as physical reaction :

Burning of candle and making of chapatti from flour.

SECTION-B

A.Fill in the blanks.

1. Iron is an _____ because it is made up of the _____ of the same kind.
2. Water is a _____, each molecule of it contains _____ of hydrogen and one atom of _____.
3. During a _____ change, the _____ state, shape, size or colour of the substance might change.
4. Burning of candle is an example of a _____ change.
5. Acid + _____ \rightarrow _____ + water.

B.Write true or false.

1. $\text{NaOH} + \text{H}_2\text{O} \rightarrow \text{NaCl} + \text{HCl}$ _____.
2. Mixtures are not pure substances. _____.
3. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$ is a displacement reaction _____.
4. Products undergo a chemical change in a reaction. _____.
5. Nitrogen + Hydrogen \rightarrow ammonia _____.

C.Match the following.

- | | |
|--------------------------|------------------------|
| 5. Limestone | Decomposition reaction |
| 6. Breaking up of water. | Ions |
| 7. Curdling of milk. | CaCO_3 |
| 8. Melting of candle | Chemical change |
| 9. Charged particles. | Physical change |

D.Answer the following briefly.

10. Explain chemical change with an example.
11. What is a chemical reaction? Give an example.
12. Are lemonade and soil mixtures? Explain.
13. Write the formula of Calcium carbonate with steps.
14. Give a chemical reaction to represent a Displacement reaction.
15. **Make a list of Physical changes and Chemical changes(10 each) happening around you in the household and immediate neighbourhood.**