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Physical and Chemical Change

Q1. When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.

Ans.	
Q2.	Why are chemical changes important in our daily lives?
Ans.	
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Q3. Ans.	In addition to new products, what else may accompany a chemical change?
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Physical and Chemical Change

- Q1. When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.
- Ans. When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas.
 We can write the reaction as:
 Lemon juice (Citric acid) + Baking soda (Sodium hydrogencarbonate) →
 Carbon dioxide + other substances
 It is a chemical change.
- Q2. Why are chemical changes important in our daily lives?
- Ans. Chemical changes are very important in our lives because all new substances are formed as a result of chemical changes. For example, if a metal is to be extracted from an ore, such as iron from iron ore, we need to carry out a series of chemical changes. A medicine is the end product of a chain of chemical reactions. Useful new materials, such as plastics and detergents, are produced by chemical reactions. Indeed, every new material is discovered by studying chemical changes.
- Q3. In addition to new products, what else may accompany a chemical change?
- Ans. In addition to new products, the following may accompany a chemical change:

i. Heat, light or any other radiation (ultraviolet, for example) may be given off or absorbed.

- Sound may be produced.
- iii. A change in smell may take place or a new smell may be given off.
- iv. A colour change may take place.
- v. A gas may be formed.

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