

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Physical and Chemical Change

Q1. Why a slice of an apple acquires a brown colour if it is not consumed immediately?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q2. Write down the equation representing the process of rusting.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q3. Why tearing of paper into pieces is a physical change?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q4. What happens when magnesium oxide is dissolved in water?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q5. Why is spoiling of food a chemical change?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Physical and Chemical Change

Q1. Why a slice of an apple acquires a brown colour if it is not consumed immediately?

Ans. A slice of an apple acquires a brown colour if it is not consumed immediately due to the formation of new substances.

Q2. Write down the equation representing the process of rusting.

Ans. The process of rusting can be represented by the following equation:

Iron (Fe) + Oxygen (O<sub>2</sub>, from the air) + water (H<sub>2</sub>O) → rust (iron oxide Fe<sub>2</sub>O<sub>3</sub>)

Q3. Why tearing of paper into pieces is a physical change?

Ans. Tearing of a paper is a physical change because when the paper is torn only the shape and size of the paper is changed, no new substance is formed.

Q4. What happens when magnesium oxide is dissolved in water?

Ans. On dissolving the magnesium oxide in water it forms a new substance.

This change can be written in the form of the following equation:

Magnesium oxide (MgO) + Water (H<sub>2</sub>O) → Magnesium hydroxide [Mg(OH)<sub>2</sub>]

Q5. Why is spoiling of food a chemical change?

Ans. Spoiling of food is an unwanted quality change in a foodstuff, such as staling, discoloration, the development of off-flavours and odours. It is a chemical change as it cannot be brought back to its original form.