Name: _____ Date: _____

Physical and Chemical Change

Q1. How would you show that setting of curd is a chemical change?

Ans. _____

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Q2. Why explosion of fireworks is a chemical change?

Ans. _____

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Q3. Explain how painting of an iron gate prevents it from rusting.

Ans. _____

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Q4. Why is hacksaw blade's color change on heating considered as a physical change?

Ans. _____

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Q5. Why do ships suffer a lot of damage from rusting in spite of being painted?

Ans. _____

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Education with Fun

Physical and Chemical Change

Q1. How would you show that setting of curd is a chemical change?

Ans. Setting of curd is a chemical change because

i. Once curd is formed it cannot be reversed back into milk.

ii. Curd and milk have different properties.

Q2. Why explosion of fireworks is a chemical change?

Ans. Explosion of a firework is a chemical change because explosion produces heat, light, sound and unpleasant gases and once the crackers are burnt, it cannot be brought back to its original form.

Q3. Explain how painting of an iron gate prevents it from rusting.

Ans. For rusting, the presence of both oxygen and water (or water vapour) is essential. Painting of an iron gate prevents it from coming in contact with oxygen, or water, or both and thus prevents it from rusting.

Q4. Why is hacksaw blade's color change on heating considered as a physical change?

Ans. Changing of hacksaw blade's color on heating is considered as a physical change because in this process only colour changes, no new substance is formed.

Q5. Why do ships suffer a lot of damage from rusting in spite of being painted?

Ans. Ships suffer a lot of damage from rusting in spite of being painted because the water of the sea contains many salts which makes the process of rust formation faster.