



Which one is NOT a chemical change? A. seed germination B. making paper boat C. burning of wood D. cooking food

Which one is NOT a chemical change?

Seed germination

Burning of wood

Making a paper boat

Cooking food

Show Answer...

Correct Answer: b) making a paper boat

Understanding Chemical Changes and Identifying Them

Which one is NOT a chemical change?

A. seed germination

B. making paper boat

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D. cooking food

Chemical changes, also known as chemical reactions, involve the transformation of substances into new substances with different properties. These changes often result in the formation or breaking of chemical bonds. On the other hand, physical changes do not alter the fundamental composition of a substance and are typically reversible.

Let's analyze the options provided to identify which one is NOT a chemical change.

a) Seed Germination

Seed germination is a biological process rather than a chemical change.

During germination, a seed absorbs water and nutrients, triggering biochemical reactions that lead to the growth of a new plant. While some chemical processes occur during germination, such as enzymatic reactions, it is primarily a biological phenomenon.



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b) Making a Paper Boat

Making a paper boat is an example of a physical change, specifically the folding and shaping of paper. No chemical reactions take place when you fold a piece of paper into a boat. The paper retains its chemical composition, and the change is easily reversible by unfolding the paper.

c) Burning of Wood

The burning of wood is a classic example of a chemical change. When wood burns, it undergoes a combustion reaction with oxygen, producing heat, light, ash, and new chemical compounds like carbon dioxide and water vapor. This process irreversibly transforms wood into different substances.

d) Cooking Food

Cooking food involves both physical and chemical changes. While the application of heat (a physical change) may alter the texture and appearance of food, it also initiates chemical reactions like caramelization, Maillard reaction, and denaturation of proteins. These chemical changes can significantly affect the taste and aroma of the cooked food.

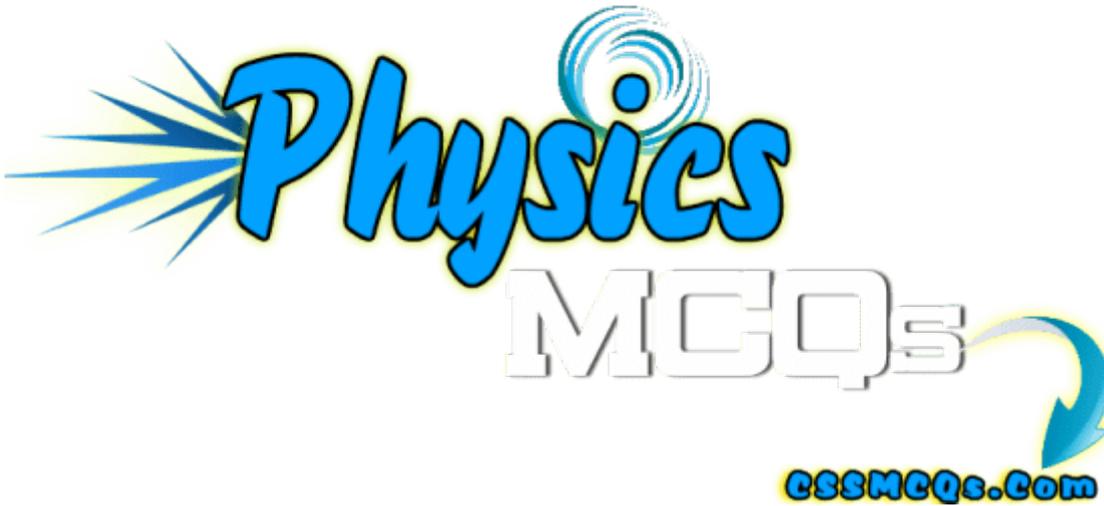
Conclusion

Among the given options, **making a paper boat (option b)** is the one that does not involve a chemical change. It is a physical change, as the paper's chemical composition remains unchanged during the folding process. The other options—seed germination, burning of wood, and cooking food—involve various chemical changes, each with its unique characteristics and outcomes. Understanding the distinction between physical and chemical changes is essential in chemistry and everyday life.



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