PHYSICAL AND CHEMICAL CHANGES

Q/A WORKSHEET

1. Are the following physical or chemical changes?

(a) Beating of aluminum metal to make aluminum foil

(b) Digestion of food

(c) Cutting a log of wood into pieces

(d) Burning of crackers

Ans:

2. Explain why lime water turns milky by passing carbon dioxide gas through it.

Ans:

3. Is cloud formation a physical or a chemical change?

Ans:

4. What are the differences between physical and chemical changes? (Answer in the form of a table)

Ans:

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Answers

1. Are the following physical or chemical changes?

(a) Beating of aluminum metal to make aluminum foil

(b) Digestion of food

(c) Cutting a log of wood into pieces

(d) Burning of crackers

Ans: (a) and (c) are physical changes, while (b) and (d) are chemical changes.

2. Explain why lime water turns milky by passing carbon dioxide gas through it.

Ans: Lime water is a calcium hydroxide solution. When carbon dioxide passes through lime water, a new substance, calcium carbonate, is formed. This makes the reaction a chemical change.

3. Is cloud formation a physical or a chemical change?

Ans: The formation of clouds is a physical change. The condensation of water vapors present in the atmosphere forms clouds. When rainwater goes back to the earth, no new product is created.

4. What are the differences between physical and chemical changes? (Answer in the form of a table)

Ans:

Physical Change	Chemical Change
No new substance is formed.	A new substance is formed.
It is a temporary change.	It is a permanent change.
Physical change is easily reversible.	Chemical change is irreversible.
Very little energy (heat, etc) is absorbed or released in a physical change.	A lot of energy (heat, light, sound, etc) is absorbed or given out in a chemical change.

Name : _____

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