

Name : _____ Date : _____

Worksheet on Physical Vs. Chemical Properties & Changes

i. In the blank provided, identify if the following as chemical or physical properties.

1. Iron reacts with oxygen and forms rust. _____
2. The boiling point of water is 100 °C. _____
3. Baking soda reacts with vinegar. _____
4. The gas is flammable. _____
5. Oxygen is a gas. _____
6. Argon is not very reactive. _____
7. Nitrogen is a colorless gas. _____
8. The silver spoons were tarnished and turned dark. _____
9. The piece of metal is magnetic. _____
10. A student's shirt suddenly bursts into flames. _____

ii. Classify the following as chemical change (CC), chemical property (CP), physical change (PC), or physical property (PP).

- | | |
|-----------------------------------|---------------------------|
| 1. Heat conductivity _____ | 8. Combustible _____ |
| 2. Silver tarnishing _____ | 9. Water freezing _____ |
| 3. Sublimation _____ | 10. Wood burning _____ |
| 4. Magnetizing steel _____ | 11. Acid resistance _____ |
| 5. Shortening melting _____ | 12. Brittleness _____ |
| 6. Length of a metal object _____ | 13. Milk souring _____ |
| 7. Exploding dynamite _____ | 14. Bread baking _____ |

iii. Write whether the following sentences are true (T) or false (F).

1. Changing the size and shapes of pieces of wood would be a chemical change. _____
2. In a physical change, the makeup of matter is changed. _____
3. Evaporation occurs when liquid water changes into a gas. _____
4. Evaporation is a physical change. _____
5. Burning wood is a physical change. _____

Worksheet on Physical Vs. Chemical Properties & Changes

Answers

i. In the blank provided, identify if the following as chemical or physical properties.

1. Iron reacts with oxygen and forms rust. Chemical
2. The boiling point of water is 100 °C. Physical
3. Baking soda reacts with vinegar. Chemical
4. The gas is flammable. Chemical
5. Oxygen is a gas. Physical
6. Argon is not very reactive. Chemical
7. Nitrogen is a colorless gas. Physical
8. The silver spoons were tarnished and turned dark. Chemical
9. The piece of metal is magnetic. Physical
10. A student's shirt suddenly bursts into flames. Chemical

ii. Classify the following as chemical change (CC), chemical property (CP), physical change (PC), or physical property (PP).

- | | |
|---------------------------------------|-------------------------------|
| 1. Heat conductivity <u>PP</u> | 8. Combustible <u>CP</u> |
| 2. Silver tarnishing <u>CC</u> | 9. Water freezing <u>PC</u> |
| 3. Sublimation <u>PC</u> | 10. Wood burning <u>CC</u> |
| 4. Magnetizing steel <u>PC</u> | 11. Acid resistance <u>CP</u> |
| 5. Shortening melting <u>PC</u> | 12. Brittleness <u>PP</u> |
| 6. Length of a metal object <u>PP</u> | 13. Milk souring <u>CC</u> |
| 7. Exploding dynamite <u>CC</u> | 14. Bread baking <u>CC</u> |

iii. Write whether the following sentences are true (T) or false (F).

1. Changing the size and shapes of pieces of wood would be a chemical change. F
2. In a physical change, the makeup of matter is changed. F
3. Evaporation occurs when liquid water changes into a gas. T
4. Evaporation is a physical change. T
5. Burning wood is a physical change. F