

Physical and Chemical Changes and Properties of Matter Worksheet

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

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|---------------------------------|---------------------------|
| 1. _____ Heat conductivity | 8. _____ Combustible |
| 2. _____ Silver tarnishing | 9. _____ Water freezing |
| 3. _____ sublimation | 10. _____ Wood burning |
| 4. _____ magnetizing steel | 11. _____ Acid resistance |
| 5. _____ length of metal object | 12. _____ Brittleness |
| 6. _____ shortening melting | 13. _____ Milk souring |
| 7. _____ exploding dynamite | 14. _____ baking bread |

Identify the following as being true (T) or false (F) to the left of the sentence.

- _____ 15. A change in size or shape is a physical change.
- _____ 16. A chemical change means a new substance with new properties was formed.
- _____ 17. An example of a chemical change is when water freezes.
- _____ 18. When platinum is heated, then cooled to its original state, we say this is a physical change.
- _____ 19. When milk turns sour, this is a physical change because a change in odor does not indicate a chemical change.
- _____ 20. When citric acid and baking soda mix, carbon dioxide is produced and the temperature decreases. This must be a chemical change.

Identify each of the following as a physical change or chemical change.

21. _____ You leave your bicycle out in the rain and it rusts.
22. _____ A sugar cube dissolves.
23. _____ Scientist break-up water into oxygen and hydrogen gas.
24. _____ Burning coal for a barbecue.
25. _____ Trimming a bush because it has grown too tall.