

## Matter Homework Packet

Name \_\_\_\_\_  
Period \_\_\_\_\_

### 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).

- |                                 |                           |
|---------------------------------|---------------------------|
| 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 or false 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 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.