

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

## Physical and Chemical Properties Worksheet

Classify the following properties as either chemical or physical by checking the appropriate column.

|  | <b>Physical<br/>property</b> | <b>Chemical<br/>property</b> |
|--|------------------------------|------------------------------|
| Blue color                                     |                              |                              |
| Density  |                              |                              |
| Flammability                                   |                              |                              |
| Dissolves in water                             |                              |                              |
| Boils at 100 degrees                           |                              |                              |
| Scratches glass                                |                              |                              |
| Sour taste                                     |                              |                              |
| Rusting  |                              |                              |
| Exploding fireworks                            |                              |                              |
| Melting point                                  |                              |                              |
| Reacts with H <sub>2</sub> O to form gas       |                              |                              |
| Reacts with something to form H <sub>2</sub> O |                              |                              |
| Hardness                                       |                              |                              |
| Boiling point                                  |                              |                              |
| Luster (shine)                                 |                              |                              |
| Odor   |                              |                              |

# 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
2. \_\_\_\_\_ Silver tarnishing
3. \_\_\_\_\_ sublimation
4. \_\_\_\_\_ magnetizing steel
5. \_\_\_\_\_ length of metal object
6. \_\_\_\_\_ shortening melting
7. \_\_\_\_\_ exploding dynamite

8. \_\_\_\_\_ Combustible
9. \_\_\_\_\_ Water freezing
10. \_\_\_\_\_ Wood burning
11. \_\_\_\_\_ Acid resistance
12. \_\_\_\_\_ Brittleness
13. \_\_\_\_\_ Milk souring
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.