

Continue

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. <u>PP</u> Heat conductivity | 8. <u>CP</u> Combustible |
| 2. <u>CC</u> Silver tarnishing | 9. <u>PC</u> Water freezing |
| 3. <u>PC</u> sublimation | 10. <u>CC</u> Wood burning |
| 4. <u>PC</u> magnetizing steel | 11. <u>CP</u> Acid resistance |
| 5. <u>PP</u> length of metal object | 12. <u>PP</u> Brittleness |
| 6. <u>PC</u> shortening melting | 13. <u>CC</u> Milk souring |
| 7. <u>CC</u> exploding dynamite | 14. <u>CC</u> baking bread |

Identify the following as being true or false to the left of the sentence.

- T 15. A change in size or shape is a physical change.
T 16. A chemical change means a new substance with new properties was formed.
F 17. An example of a chemical change is when water freezes.
T 18. When platinum is heated, then cooled to its original state, we say this is a physical change.
F 19. When milk turns sour, this is a physical change because a change in odor does not indicate a chemical change.
T 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. CC You leave your bicycle out in the rain and it rusts.
 22. PC A sugar cube dissolves.
 23. CC Scientist break-up water into oxygen and hydrogen gas.
 24. CC Burning coal for a barbecue.
 25. PC Trimming a bush because it has grown too tall.

GRAPHING DISTANCE VS. TIME Name _____

The following data on the graph and answer the questions below.

Distance (m)	Time (s)
0	0
5	10
10	20
20	30
30	40
40	50
50	60

- What's the average speed at $t = 20$ s? $v = \frac{d}{t} = \frac{10 \text{ m}}{20 \text{ s}} = 0.5 \text{ m/s}$
- What's the average speed at $t = 30$ s? $v = \frac{d}{t} = \frac{20 \text{ m}}{30 \text{ s}} = 0.667 \text{ m/s}$
- What's the acceleration between 20 s and 30 s? $a = \frac{v_2 - v_1}{t_2 - t_1} = \frac{0.667 \text{ m/s} - 0.5 \text{ m/s}}{10 \text{ s}} = 0.0167 \text{ m/s}^2$
- What's the average speed at $t = 40$ s? $v = \frac{d}{t} = \frac{30 \text{ m}}{40 \text{ s}} = 0.75 \text{ m/s}$
- What's the average speed at $t = 50$ s? $v = \frac{d}{t} = \frac{40 \text{ m}}{50 \text{ s}} = 0.8 \text{ m/s}$
- What's the acceleration between 40 s and 50 s? $a = \frac{v_2 - v_1}{t_2 - t_1} = \frac{0.8 \text{ m/s} - 0.75 \text{ m/s}}{10 \text{ s}} = 0.005 \text{ m/s}^2$
- Is the object accelerating at a constant rate? No

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