

Complete the following assignment in your class notebook with the heading:

PHYSICAL AND CHEMICAL PROPERTIES AND CHANGES

Physical and Chemical Properties

Identify the following as a chemical (C) or physical property (P) and then circle all of the intensive properties:

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|-----------------------------------|----------------------------|
| <u>P</u> ① blue color | _____ 8. melting point |
| <u>P</u> ② density | _____ 9. reacts with water |
| <u>C</u> 3. flammability (burns) | _____ 10. hardness |
| <u>P</u> ④ solubility (dissolves) | _____ 11. boiling point |
| <u>C</u> 5. reacts with acid | _____ 12. luster |
| <u>C</u> 6. supports combustion | _____ 13. odor |
| <u>P</u> ⑦ sour taste | _____ 14. reacts with air |

Physical and Chemical Changes

Identify the following as physical (P) or chemical (C) changes.

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|---|-------------------------------------|
| <u>P</u> 1. NaCl (Table Salt) dissolves in water. | _____ 9. Milk sours. |
| <u>C</u> 2. Ag tarnishes. | _____ 10. Sugar dissolves in water. |
| <u>P</u> 3. An apple is cut. | _____ 11. Wood rots. |
| <u>P</u> 4. Heat changes H ₂ O to steam. | _____ 12. Pancakes cook. |
| <u>C</u> 5. Baking soda reacts to vinegar. | _____ 13. Grass grows. |
| <u>C</u> 6. Fe rusts. | _____ 14. A tire is inflated. |
| <u>P</u> 7. Alcohol evaporates. | _____ 15. Food is digested. |
| <u>P</u> 8. Paper towel absorbs water. | _____ 16. Ice melts. |
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| <u>C</u> 17. Two chemicals are mixed together and a gas is produced. |
| <u>C</u> 18. A bicycle changes color as it rusts. |
| <u>P</u> 19. A solid is crushed to a powder. |
| <u>C</u> 20. Two substances are mixed and light is produced. |
| <u>P C</u> 21. A piece of ice melts and reacts with sodium. |
| _____ 22. Mixing salt and pepper. |
| _____ 23. Chocolate syrup is dissolved in milk. |
| _____ 24. A marshmallow is toasted over a campfire. |
| _____ 25. A marshmallow is cut in half. |
| _____ 26. An ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone. |