Period _____

Physical & Chemical Changes

TWO WAYS TO CHANGE

A melting ice sculpture...a spectacular bonfire...a cake baking in the oven...a milkshake in the making...an explosion...all of these involve changes in matter. Some are physical changes (changes in shape, color, or state of matter) and others are chemical changes (changes involving chemical reactions). Which are which? For each change described below, write P or physical change or C for chemical change. Be ready to explain your choices.

	 1. glass breaking 2. hammering wood together to build a playhouse 3. a rusting bicycle 4. melting butter for popcorn 5. glassblower creating sculptures out of glass
	 6. freezing chocolate-covered bananas 7. separating sand from gravel 8. spoiling food 9. burning toast 10. making salt water to gargle for a sore throat 11. cream being whipped
	 12. water evaporating from a pond 13. cutting grass 14. burning leaves 15. humidifier putting moisture into the air 16. corroding metal 17. bleaching your hair
S	 18. fireworks exploding 19. squeezing oranges to get orange juice 20. frying an egg 21. pouring milk on your oatmeal

Classification

Directions: In the blank on the left, label each of the following as physical property (PP), chemical property (CP), physical change (PC), or chemical change (CC).

22. sharpening a pencil	27. drawing copper into wire
23. flammability of a substance	28. corrosion of bicycle frame (rusting)
24. size of an object	29. fragrance of a flower
25. inflating a tire	30. formation of water when hydrogen burns
26. freezing point	31. boiling water

Vocabulary Review

Directions: Use the clues below to complete the crossword puzzle.

Down

- 1. Heterogeneous mixture with larger particles that never settle.
- 3. A mixture in which different materials can be easily distinguished.



8. Describing the color of an apple is a physical

