

Name: _____

"Name the Change" Demonstrations

Part A: Review.

In your own words, what is the difference between a physical and a chemical change?

Part B: Demonstration.

Make observations as you watch the following demos.

Procedure	Observations before	Observations During	Observations After	Physical (P) or Chemical (C) Change?
Vinegar and Baking Soda				
Vinegar and Water				
Lighting a Match				
Spaghetti in Boiling Water				
Sugar in Cold Water				
Elephant toothpaste				

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Observations:

1. Dip a piece of uncooked spaghetti in water. Use the spaghetti like a pen to write your initials on a piece of paper. Dip another piece of uncooked spaghetti in lemon juice and write your initials on another piece of paper. Heat both papers gently over a hot plate (at the front). Do not place directly on the hot plate. Record your observations:

Analyze and Evaluate:

1. Which demonstrations produced physical changes?

2. Which demonstrations produced chemical changes? What clues did you use to decide?

Apply and Extend:

3. Based on your observations, why do you think recipes call for baking soda?

4. Give one example of a physical change and one example of a chemical change that might occur while making a meal.

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Part C: Conclusion.

Which demo had the most number of chemical change characteristics (see chapter 5.2 for list), what were they?

Give one example of a physical change and one example of a chemical change that you would see in preparing a meal.

Which changes are more important to your life, physical or chemical changes? Why?

Draw 1 Physical Change and 1 Chemical Change that you saw during the Demo. Include observations that saw before, during, and after the change. Note any of the clues you observed.

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