

Activity  
**3**  
Reproducible  
Master

# Rising to New Heights

Sometimes, playing with your food can make for interesting results. Try these experiments and you'll think differently the next time you enjoy a yummy favorite.

## Kitchen Science Facts

- Baking powder is an acid. Baking soda is a base. In chemistry, acids and bases have different properties that cause chemical reactions.
- Baking powder and baking soda are both chemical leaveners. A chemical leavener is a substance that creates a reaction when moistened and heated.
- In baking, acids and bases react to form and release carbon dioxide (CO<sup>2</sup>) bubbles in the dough. This reaction causes dough to rise and to create a food product with a light and fluffy texture.

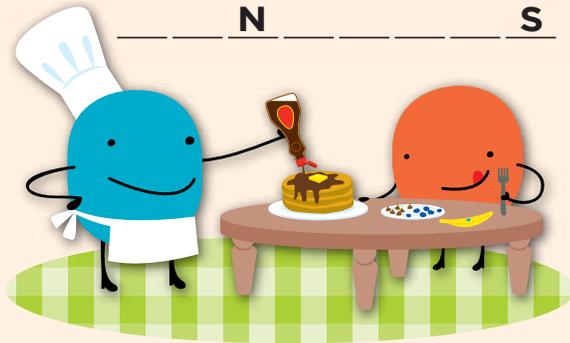


### Part A.

## Kitchen Science Challenge!

Write the name of a favorite breakfast food that uses baking powder or baking soda as a leavener to make them light and fluffy!

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### Part B.

## What would happen if...

...you created reactions with baking powder and with baking soda? Follow the steps below and your teacher's directions for some interesting results.

1. Place a tablespoon of baking powder into a glass cup. Add water and observe.

My prediction: \_\_\_\_\_

2. Place a tablespoon of baking soda into a different glass cup. Add water and observe.

My prediction: \_\_\_\_\_

3. Place a tablespoon of baking soda into a third glass cup. Add vinegar instead of water and observe.

My prediction: \_\_\_\_\_

## Kitchen Science at Home

Mix up a chemical reaction at home by asking a parent to help you make some pancakes! Then get creative and choose toppings and add-ins to pack more flavor into your pancakes! These can include: chocolate chips, blueberries, sliced bananas, nuts, coconut, whipped cream, strawberries, and chocolate sauce.

Who doesn't love pancakes? Come in for an amazing breakfast spread every Saturday and Sunday at Old Country Buffet and enjoy all your favorites. We have bacon, sausage,

pastries and, of course, plenty of pancakes!



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Buffet

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