

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.

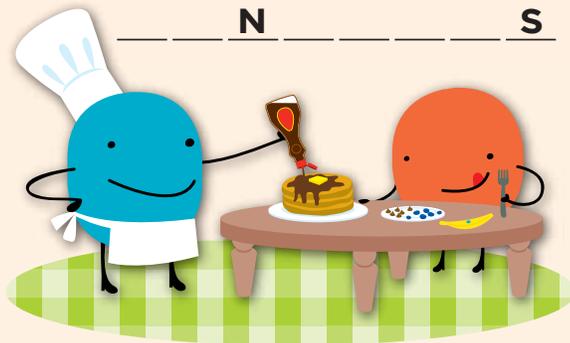


### Part A.

## 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 **Ryan's** and enjoy all your favorites. We have **bacon, sausage, pastries** and, of course, plenty of **pancakes!**



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