

# Top Food Science Experiments



# Science Experiments Top

**L Darling-Hammond**



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through its coil it turns magnetic and repels the permanent magnet on the rotor making it move And here is a sample Discussion from Juice Rocket Lemon juice is an acid and baking soda is a base When the two ingredients are mixed together they produce carbon dioxide gas You can try acidic ingredients like vinegar any citrus juice sour cream yogurt or buttermilk with baking soda or baking powder Often recipes that use baking soda will need another ingredient with acid to make the bubbles so the bread or cake rises Baking powder is made up of baking soda with the right quantities of acidic salts and both react when heated or water is added In this experiment you put the baking soda in a toilet paper pouch to slow down the mixing process which gives you some time to fix the cork and stand back Here is the chemical formula Lemon juice or vinegar is acetic acid  $\text{CH}_3\text{COOH}$  Baking soda is sodium bicarbonate  $\text{NaHCO}_3$  Mixing the two is simply an acid base reaction  $\text{CH}_3\text{COOH} + \text{NaHCO}_3 \rightarrow \text{CH}_3\text{COONa} + \text{H}_2\text{CO}_3$  That last product is carbonic acid which quickly decomposes into carbon dioxide and water  $\text{H}_2\text{CO}_3 \rightarrow \text{H}_2\text{O} + \text{CO}_2$  This book is written in a way to explain theory and formulas in plain English and to encourage curiosity It will help young readers and parents learn science in a fun way and ignite a life long interest in all aspects of experiments

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