

Top Food Science Experiments



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Top 10 Science Experiments for Kids 7 - 12 Mahesh Lalwani,2012-04-27 Top 10 science experiments for kids 7 12 years old are described in a simple language that includes materials needed steps involved and a discussion on theories behind them Kids would love to build a Juice Rocket an Electric Motor and an Elephant Toothpaste and several other exciting experiments With some help from parents this book makes learning a lot of fun for kids It offers a perfect family activity without the cost of a summer camp Following is a complete list of top 10 science experiments from the book PHYSICS Hovercraft Solar Cooker Electric Motor Rubber band RacerCHEMISTRY Lemon Batter Juice Rocket Elephant ToothpasteLIFE SCIENCES Germinator Painting Flowers Straw Pulse MeterEach of the top 10 experiments have following sections 1 Goals2 Description3 Materials4 Building Steps5 Problem Solving6 Discussionand a lot of images showing materials and building steps Here is a sample Description for Electric Motor Electric motors convert electrical energy into mechanical energy In other words they use battery or A C power to spin a shaft which can then be used to move wheels on cars and trains lift weight for elevators and cranes or spin CDs and DVDs for players Motors have magnets with the same poles north north or south south positioned to repel each other One of them is placed on a stationary part called stator and other one on the rotor which moves because stator s magnet repels it It can only move in a circular motion making it spin To make the rotor spin continuously stator has an electro magnet instead of a permanent magnet When electric current flows

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 CH_3COOH Baking soda is sodium bicarbonate 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 *A Dictionary of Science, Literature, & Art* William Thomas Brande, George William Cox, 1875 **101 Cool Science Experiments**, 2005 Science experiments you can do in your own kitchen using everyday things like vinegar string eggs and paper *Amazing Science Experiments* E. Richard Churchill, 2005 The remarkable activities in this no sweat science guide will help you take a closer look at how our lives are affected by everything from light and heat to air and wind

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