

## Alka Seltzer Reactions: An Inquiry-Based Investigation

In your lab groups, you will design, execute and interpret an experiment to test the effect of particle size on the reaction between Alka Seltzer tablets and water. You should be able to quantify your results in *at least* 1 way. Stronger experiments will include more than 1 type of quantitative data. (\*Remember: "Quantitative" means you will be taking a measurement of something)

### BACKGROUND:

Alka Seltzer is a combination of an acid ( $C_6H_8O_7$ ) and baking soda ( $NaHCO_3$ ). When the two react in water, they generate, among other things, Carbon Dioxide gas ( $CO_2$ ).



This means that as the reaction proceeds, you will observe several changes, including bubbles that indicate the release and loss of the carbon dioxide gas. You must use these changes in order to quantify the rate and extent of the reaction.

PROBLEM: How will the size of Alka Seltzer particles affect the rate and extent of its reaction with water?

PREDICTION: What result do you expect to see in this experiment and why?

### MATERIALS AVAILABLE:

- |                       |                        |
|-----------------------|------------------------|
| - Alka Seltzer        | - Balloons             |
| - Water               | - Beakers/cups         |
| - Graduated Cylinders | - Plastic soda bottles |
| - Stop Watch or Timer | - Foil                 |
| - Balance             | - Syran wrap           |
| - Straws              | - Rubber bands         |

### DIRECTIONS:

1. Discuss with your group the goal of this lab.
2. Examine the available materials and write a procedure for your experiment.
3. Before starting experimentation, check in with your teacher and have your procedures approved.
4. Conduct your experiment and make adjustments as needed- you may need to conduct more than one trial or try several methods in order to produce quality data.
5. Be sure to include all procedures with your lab report.

# Alka Seltzer Lab Answers

**S. Holly Stocking, Eileen Teper  
Bender, Claude H. Cookman, Vince  
Peterson**

## **Alka Seltzer Lab Answers:**

The Impact of the Laboratory and Technology on Learning and Teaching Science K-16 Dennis W. Sunal, Emmett L. Wright, Cheryl Sundberg, 2007-12-21 This book examines the role of laboratory work and technology in K 12 science education involving perspectives from policymakers researchers and teachers It explores design research professional practice and evaluation highlighting the benefits of inquiry based experiences integrated with classroom curricula

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**Gifted Young in Science** Paul Franz Brandwein, A. Harry Passow, Deborah C. Fort, 1989 Thirty four authors have joined to produce this book Among them are natural and physical scientists psychologists historians writers scholars of curriculum

and instruction teacher educators and teachers of the young The contributors probe many methodologies including the place of unified concepts and processes the interaction of the certainties of problem doing with the uncertainties of problem solving the hands on approaches coupled with the brains on ones as well as the much needed hands off ones Thus the tools of the student are strengthened with the hard won tools of the scientist The heart of this book opens a variety of opportunities to all who wish to help others press on with the arts of scientific investigation Major areas of study include how science for the gifted should be taught for the future the purpose and principles of teaching the gifted in science basis for planning curriculum and instruction and personal reflections on teaching the gifted The bibliography is structured into four parts 1 general works early and current studies 2 traits of gifted individuals 3 programs strategies tactics and needed research and 4 journals and publications of selected associations MVL *Advertising of Proprietary Medicines: Antacids, June 6, 1973; June 4 and 5, 1974* United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly,1971

**Spotlight Science Teacher Support Pack 7: Framework Edition** Keith Johnson,2003 This Framework Edition Teacher Support Pack offers comprehensive support and guidance providing the best possible learning experience for your students and saving time for everyone in the department **Steelabor** ,1987 **Advertising of proprietary medicines** United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly,United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly and Anticompetitive Activities,1973 *More Quick Hits* S. Holly Stocking,Eileen Teper Bender,Claude H. Cookman,Vince Peterson,1998-09-22 This sequel to the popular Quick Hits puts the focus on learning More Quick Hits offers simple but successful strategies that award winning teachers have found help promote student understanding and retention The book also tells how to create the best environment in which to teach the courses you love *Advertising of Proprietary Medicines* United States. Congress. Senate. Committee on Small Business. Subcommittee on Monopoly,1973 *Time* ,1947 Reels for 1973 include Time index 1973 **An Introduction to Physics** Harvard Project Physics,1968 **Through A Window** Jane Goodall,2010-04-07 The renowned British primatologist continues the engrossing account of her time among the chimpanzees of Gombe Tanzania Publishers Weekly In her classic In the Shadow of Man Jane Goodall wrote of her first ten years at Gombe In Through a Window she continues the story painting a more complete and vivid portrait of our closest relatives On the shores of Lake Tanganyika Gombe is a community where the principal residents are chimpanzees Through Goodall s eyes we watch young Figan s relentless rise to power and old Mike s crushing defeat We learn how one mother rears her children to succeed and another dooms hers to failure We witness horrifying murders touching moments of affection joyous births and wrenching deaths As Goodall compellingly tells the story of this intimately intertwined community we are shown human emotions stripped to their essence In the mirror of chimpanzee life we see ourselves reflected A humbling and exalting book Ranks with the great scientific achievements of the twentieth century Washington Post An absolutely smashing account Thrilling affectionate

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