

Name:

**Baking Soda & Vinegar Stoichiometry Lab**

In class you've learned how to compute the amount of product you can make when you mix measured amounts of reactants. In this lab you will actually be using this information to predict how much product will be generated. The reaction you will be working with should be familiar to you from elementary school science lab worksheets. You will be mixing baking soda ( $\text{NaHCO}_3$ ) with acetic acid ( $\text{CH}_3\text{CO}_2\text{H}$ ) to generate carbonic acid ( $\text{H}_2\text{CO}_3$ ) and sodium acetate ( $\text{NaC}_2\text{H}_3\text{O}_2$ ), which is a food preservative additive.

**Section 1: Computing the amounts of reactants that we need**

In this lab, you will need to do a reaction where baking soda will react with an excess of acetic acid. For our reaction, we will need to use **0.0490 moles** of baking soda, which we will call by its chemical name, sodium bicarbonate, for the rest of this lab. If we use much more than 0.0490 moles of baking soda, the reaction will be too large and we will risk heating some of the reaction products just over the side of the flask when we mix it with the acetic acid.

In the space below, calculate how many grams of sodium bicarbonate we will need for this lab:

For this lab, we will use \_\_\_\_\_ grams of sodium bicarbonate.

**Section 2: The reaction**

1. Determine the mass of an empty 250ml. flask. You will need the mass of the empty flask at the end of the lab.

Mass of empty 250ml. flask: \_\_\_\_\_

2. Measure out the mass of sodium bicarbonate that you calculated you would need in the first section of this lab. Make sure that the amount you use is as close as you can make it to the amount. Write the **exact** amount of sodium bicarbonate that you used here:

Amount of sodium bicarbonate used: \_\_\_\_\_

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# Balloon Stoichiometry Lab Answers

## [Balloon Stoichiometry Lab Answers](#)

### Balloon Stoichiometry Lab Answers

Balloon Stoichiometry: Vinegar and Baking Soda (PART 1) The goal of this activity is to learn the concept of stoichiometry and limiting reactant. Baking soda consists of sodium bicarbonate ( $\text{NaHCO}_3$ ). Compounds that contain carbonate or bicarbonate ion react with acid to produce carbon dioxide gas and water. Vinegar is an aqueous solution of acetic acid ( $\text{HC}_2\text{H}_3\text{O}_2$ ).

### Lab+ Balloon+stoichiometry - Balloon Stoichiometry Vinegar ...

Stoichiometry Balloon Lab (Honors).doc - Name Date Pd... you blow up the balloon, you are filling the balloon with gas particles (mainly oxygen). The gas particles move freely within the balloon and may collide with one another. As more gas is added to the balloon, the number of gas particles in the balloon

### Stoichiometry Balloon Races Answers

In this lesson students review for their Unit 5 exam on Stoichiometry while doing a lab activity. This activity alligns with HS-PS1-7: Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.; This lesson aligns with NGSS Science and Engineering Practice 3: Planning and Carrying out Investigations because students are ...

### Ninth grade Lesson Balloon Stoichiometry | BetterLesson

Materials for Stoichiometry Balloon Races—Limiting and Excess Reactants are available from Flinn Scientific, Inc. This activity is also available as a Chemical Demonstration Kit that contains all the materials to perform this demonstration seven times. Catalog No. Description A0186 Acetic Acid Solution, 6 M, 500 mL S0042 Sodium Bicarbonate, Reagent, 500 g GP3040 Erlenmeyer Flask, 125-mL ...

### Stoichiometry Balloon Races

Demonstrations > Stoichiometry > 6.1. Stoichiometry. 6.1 Balloon Stoichiometry. Subjects: Stoichiometry, kinetics, limiting reactant Description: Different stoichiometric ratios of solid sodium bicarbonate are added to flasks containing 1M HCl. Balloons attached to the flask will collect the  $\text{CO}_2$  gas evolved. The rate of inflation and the volume of inflation are determined by the initial ...

### Stoichiometry 6.1-Lecture Demonstrations-Department of ...

Use a powder funnel to add the first sodium bicarbonate sample (#1) to one of the balloons. 6. Flatten out the balloon and then carefully place the neck of the balloon over the mouth of test tube #1. Do not allow the solid to drop into the flask at this time.

### Stoichiometry Balloon Races (A Lab about Limiting Reactants)

Stoichiometry - Limiting & Excess Reactant, Theoretical & Percent Yield - Chemistry - Duration: 20:12. ... How to Fill a Balloon with Gas | Science Projects - Duration: 3:05. Howcast Recommended ...

### balloon stoichiometry

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### Balloon Stoichiometry Lab Answers PDF Online Free - OtisReece

Experiment 7 Reaction Stoichiometry Percent Yield Answers. Lab 19 Stoichiometry OpenStudy. Unit 7 Chemistry Stoichiometry Flashcards Quizlet. Limiting Reagents And Percent Yield Article Khan Academy. Ninth Grade Lesson Balloon Stoichiometry BetterLesson. Mole Ratios And Reaction Stoichiometry. Stoichiometry Lab Help Yahoo Answers. Lab Report 7 ...

### Experiment 7 Reaction Stoichiometry Percent Yield Answers

Vlog 95: In this video, I briefly go over the stoichiometry balloon racers lab that my students did this week. I used it as an introduction to stoichiometry and limiting reactants before actually ...

### High School Science Teacher Vlog | Stoichiometry Balloon Racers Lab Activity

Stoichiometry Balloon Races Limiting and Excess Reactants Introduction Most stoichiometry calculations in the classroom are performed using exact (stoichiometric) mole ratios of reactants and products. In real life, however, many commercial processes for preparing compounds are carried out using an excess amount of one reactant (and thus a limiting amount of another reactant). This ...

### Stoichiometry Balloon Races - Flinn

Label six weighing dishes from 1 to 6. Mass 0.50g, 1.00g 1.50 g, 2.00g, 2.50g, and 3.00g of sodium bicarbonate in each of the labeled weighing dishes. 3. Obtain six balloons and stretch them to ...

### My PBL Project - STOICHIOMETRY BALLOON RACE

Stoichiometry Lab Report Brittney Aceron Karla Wade-Choza, Jonathan Guerrero, Luis Martinez Caroline Chen March 11, 2013 Introduction In this lab, we mixed together the reactants, 0.05 moles of baking soda and some vinegar into a flask. The products were the carbon dioxide, water, ...

### Stoichiometry Lab Report - Google Docs

Lab: Investigating the Self-Inflating Balloon. In this lab, students will investigate the chemical reaction used in the self-inflating balloon. They will apply their knowledge of gas laws and stoichiometry in order to determine the quantities of reactants used to inflate the balloon. Solubility, Reaction Rate, Balancing Equations, Stoichiometry | High School Lab: Analyzing the Reaction between ...

### Classroom Resources | Reactions & Stoichiometry | AACT

And Vinegar Stoichiometry Lab Answersvinegar stoichiometry lab answers that we will certainly offer. It is not on the order of the costs. It's nearly what you infatuation currently. This baking soda and vinegar stoichiometry lab answers, as one of the most involved sellers here will totally be among the best options to review. Page 3/27

### Baking Soda And Vinegar Stoichiometry Lab Answers

STOICHIOMETRY LAB REPORT. By: Haley Gorman. Lab Partners: Mikko O., Jahaad J., & Nadine C. Instructor: Caroline Chen. March 11th, 2013. Introduction. In this particular lab we used stoichiometry, the part of chemistry that studies amounts of substances that are involved in reactions, to observe the reactions made by combining sodium hydrogen carbonate,  $\text{NaHCO}_3$ , (baking soda) and acetic acid ...

### Stoichiometry Lab Report - Google Docs

Target Stoichiometry Lab Mole Relationships and the Balanced Equation Introduction A simple decomposition reaction of sodium bicarbonate (baking soda) presents the opportunity for students to test their knowledge of stoichiometry, factoring labels, and the mole concept. This outcome-based lab requires the students to pre-cisely predict the mass of the solid product. An electronic balance will ...

### Target Stoichiometry Lab - Flinn

Stoichiometry: Baking Soda and Vinegar Reactions Teacher Version In this lab, students will examine the chemical reaction between baking soda and vinegar, and mix different amounts of these household chemicals to learn about the concept of stoichiometry. California Science Content Standards: • 3. Conservation of Matter and Stoichiometry: The conservation of atoms in chemical reactions leads ...

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