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2011

# Inquiry and the New ChemSource

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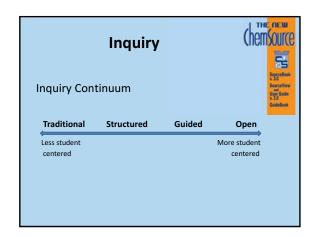
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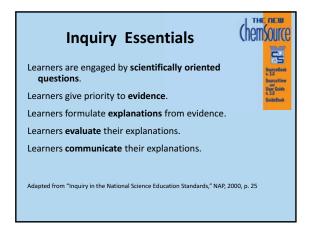
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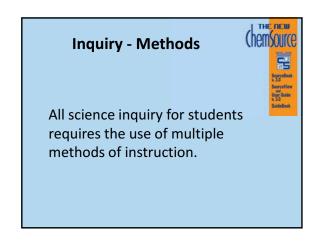
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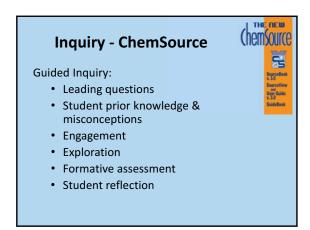
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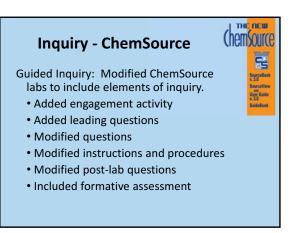




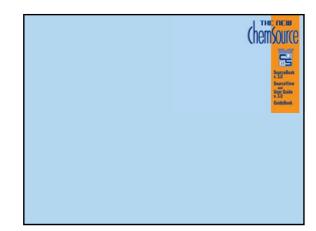












# **ChemSource Inquiry**

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Exploring Mass and Mole Relationships in Chemical Reactions: An Inquiry Approach

## **Major Chemical Concept**

#### Students will

- Observe a reaction between sodium hydrogen carbonate and acetic acid
- Measure the volume of gas produced in several trials using constant mass of acetic acid and increasing masses of NaHCO<sub>3</sub>
- Determine the correct stoichiometric masses for the reaction

## **National Standards**

- 1. Unifying Concepts and Processes
  - Evidence, models, and explanations

#### 2. Science as Inquiry

- Abilities necessary to do scientific inquiry
- 3. Physical Science
  - Chemical reactions
  - Structure and properties of matter

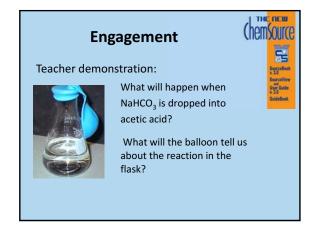
#### Level

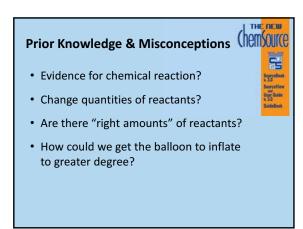
- · Regular chemistry classes
- Advanced chemistry classes
- Honors chemistry classes

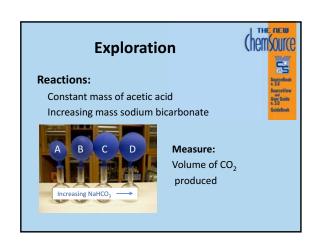


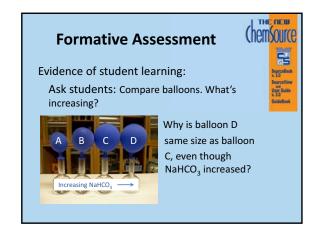
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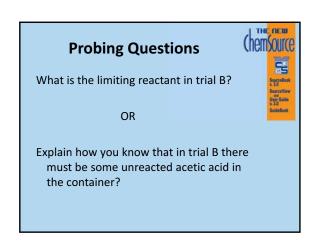








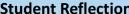




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SourceBook v. 1.0



(hem Source **Student Reflection** SourceBook v. 1.0 Measure circumference of each balloon and plot these. What is the shape of the curve and what does the curve tell us about the reacting masses?

#### **Student Reflection**

Based on all of your observations of this SourceView and User Guide V. 3.0 GuideBook reaction, in which trial were both reactants used up completely? Explain.

# **ChemSource Inquiry**

Synthesis and Qualitative Analysis of a Gas - An Inquiry-Based Approach to the Study of the **Atmospheric Gases** (if we have time)

