



Name:

Date:

## Student Exploration: Titration

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** acid, analyte, base, dissociate, equivalence point, indicator, litmus paper, molarity, neutralize, pH, strong acid, strong base, titrant, titration, titration curve, weak acid, weak base

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

There are several definitions of acids and bases. According to the Brønsted-Lowry definition, an **acid** is a substance that is capable of donating a proton to another substance. A **base** is a substance that accepts protons. When an acid and a base are combined, the acid is **neutralized** as the base accepts the protons produced by the acid.



One way to determine if a solution is acidic or basic is to use **litmus paper**, as shown above. There are two types of litmus papers: red and blue.

How does litmus paper indicate an acid?

Both strips turn red.

How does litmus paper indicate a neutral substance?

The red strip stays red and the blue one stays blue.

How does litmus paper indicate a base?

Both strips turn blue.

### Gizmo Warm-up

Litmus is an example of an **indicator**, a substance that changes color depending on its **pH** (pH is a measure of the concentration of protons, or  $H^+$  ions). In the Titration Gizmo, you will use indicators to show how acids are neutralized by bases, and vice versa.

To begin, check that **1.00 M NaOH** is selected for the **Burette**, **Mystery HBr** is selected for the **Flask**, and **Bromthymol blue** is selected for the **Indicator**.



1. Look at the flask. What is the color of the bromthymol blue indicator?

yellow

2. What does this tell you about the pH of the solution in the flask?

pH is below 6.0

Solutions with a pH below 7.0 are acidic, while those with a pH above 7.0 are basic.

3. Move the slider on the burette to the top to add about 25 mL of NaOH to the flask. What happens, and what does this tell you about the pH of the flask?

The solution turns blue meaning the pH is now above 7.5.

# Explore Learning Gizmo Answer Key

**Richard Bailey**



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## **Table of Contents Explore Learning Gizmo Answer Key**

1. Understanding the eBook Explore Learning Gizmo Answer Key
  - The Rise of Digital Reading Explore Learning Gizmo Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Explore Learning Gizmo Answer Key
  - User-Friendly Interface

4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key
  - Personalized Recommendations
  - Explore Learning Gizmo Answer Key User Reviews and Ratings
  - Explore Learning Gizmo Answer Key and Bestseller Lists
5. Accessing Explore Learning Gizmo Answer Key Free and Paid eBooks
  - Explore Learning Gizmo Answer Key Public Domain eBooks
  - Explore Learning Gizmo Answer Key eBook Subscription Services
  - Explore Learning Gizmo Answer Key Budget-Friendly Options
6. Navigating Explore Learning Gizmo Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Explore Learning Gizmo Answer Key Compatibility with Devices
  - Explore Learning Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key
  - Highlighting and Note-Taking Explore Learning Gizmo Answer Key
  - Interactive Elements Explore Learning Gizmo Answer Key
8. Staying Engaged with Explore Learning Gizmo Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Explore Learning Gizmo Answer Key
9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key
  - Setting Reading Goals Explore Learning Gizmo Answer Key
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key
  - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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