



Name:

Date:

Student Exploration: Titration

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts at 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?

Litmus strips turn red.

How does litmus paper indicate a neutral substance?

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

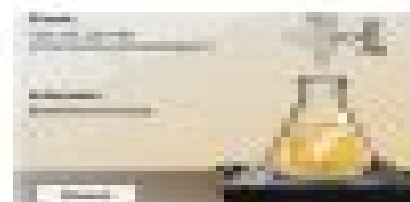
How does litmus paper indicate a base?

Litmus 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 HCl** is selected for the **Flask**, and **Bromothymol Blue** is selected for the **Indicator**.



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

yellow

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

pH is below 7.0

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 20 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 7.0.

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Table of Contents Explore Learning Gizmo Answer Key Titration

1. Understanding the eBook Explore Learning Gizmo Answer Key Titration
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Titration
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key Titration
 - 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 Titration
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Titration
 - Personalized Recommendations
 - Explore Learning Gizmo Answer Key Titration User Reviews and Ratings
 - Explore Learning Gizmo Answer Key Titration and Bestseller Lists
5. Accessing Explore Learning Gizmo Answer Key Titration Free and Paid eBooks

- Explore Learning Gizmo Answer Key Titration Public Domain eBooks
- Explore Learning Gizmo Answer Key Titration eBook Subscription Services
- Explore Learning Gizmo Answer Key Titration Budget-Friendly Options
- 6. Navigating Explore Learning Gizmo Answer Key Titration eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Titration Compatibility with Devices
 - Explore Learning Gizmo Answer Key Titration Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Titration
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Titration
 - Interactive Elements Explore Learning Gizmo Answer Key Titration
- 8. Staying Engaged with Explore Learning Gizmo Answer Key Titration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Titration
- 9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Titration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Titration
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Titration
 - Setting Reading Goals Explore Learning Gizmo Answer Key Titration
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Titration
 - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key Titration
 - 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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box diagram · Fuses box on the left side of dash panel · Location under steering wheel, on relay carrier · Fuses layout in ...

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