



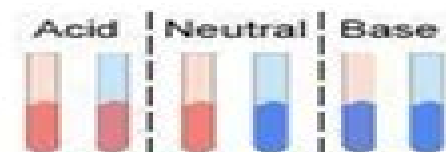
Student Exploration: Titration

Answers 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?

It turns red.

How does litmus paper indicate a neutral substance?

Red and blue strips stay the same (stay blue and red).

How does litmus paper indicate a base?

It turns 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/orange

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

It is acidic (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?

It turns blue. This means the pH is above 7.6)

Titration Chem Study Guide Answers

**John Krenos, Joseph Potenza, Loretta
Jones, Lynn Koplitz, Thomas Spence**



Titration Chem Study Guide Answers:

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and defines the wavelength frequency and speed of light The final chapter deals with the fundamental components of air and the classification of materials formed in natural waters This book is a valuable resource for chemistry students lecturers and instructors

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Table of Contents Titration Chem Study Guide Answers

1. Understanding the eBook Titration Chem Study Guide Answers
 - The Rise of Digital Reading Titration Chem Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Titration Chem Study Guide Answers
 - 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 Titration Chem Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Titration Chem Study Guide Answers
 - Personalized Recommendations
 - Titration Chem Study Guide Answers User Reviews and Ratings
 - Titration Chem Study Guide Answers and Bestseller Lists
5. Accessing Titration Chem Study Guide Answers Free and Paid eBooks
 - Titration Chem Study Guide Answers Public Domain eBooks
 - Titration Chem Study Guide Answers eBook Subscription Services
 - Titration Chem Study Guide Answers Budget-Friendly Options
6. Navigating Titration Chem Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
- Titration Chem Study Guide Answers Compatibility with Devices
- Titration Chem Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Titration Chem Study Guide Answers
 - Highlighting and Note-Taking Titration Chem Study Guide Answers
 - Interactive Elements Titration Chem Study Guide Answers
- 8. Staying Engaged with Titration Chem Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Titration Chem Study Guide Answers
- 9. Balancing eBooks and Physical Books Titration Chem Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Titration Chem Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Titration Chem Study Guide Answers
 - Setting Reading Goals Titration Chem Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Titration Chem Study Guide Answers
 - Fact-Checking eBook Content of Titration Chem Study Guide Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
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