

Student Exploration: Titration

Activity A: Acids and bases

Get the Gizmo ready:

- Click **Reset**. Select **1.0 M HNO₃** for the **Burette** and **Mystery NaOH** for the **Flask**.
- Select **Phenolphthalein** for the **Indicator**.
- You will need a scientific calculator for this activity.



Question: How do acids and bases interact in solution?

1. **Describe:** The equation for the reaction of nitric acid (HNO₃) and sodium hydroxide (NaOH) is shown on the bottom right of the Gizmo.
 - A. What are the reactants in this reaction? HNO₃, NaOH
 - B. What are the products of this reaction? NaNO₃, H₂O
2. **Measure:** A **titration** can be used to determine the concentration of an acid or base by measuring the amount of a solution with a known concentration, called the **titrant**, which reacts completely with a solution of unknown concentration, called the **analyte**. The point at which this occurs is called the **equivalence point**.

Carefully add HNO₃ into the flask until the phenolphthalein begins to lose its color. Stop adding HNO₃ when the color change is permanent.

- A. How much (HNO₃) was required to cause the indicator to change color? 8.9mL
 - B. What can you say about the pH before and after the last drop of HNO₃ was added?
The pH was above 8.2 when it was pink before the last drop, after the last drop it is less than 8.2
3. **Explore:** Click **Reset** and change the indicator to **Bromthymol blue**. Add exactly 8.8 mL of HNO₃ to the flask.
 - A. What does the color of the indicator tell you about the current pH of the flask?
Since it is blue, it tells me that the pH is above 7.6
 - B. Add one more drop of HNO₃. What does the color tell you about the pH now?
Since it is yellow, I know that the pH is below 6.0

Activity B:

Get the Gizmo ready:



Answers To Gizmo Student Exploration Titration

Michael Rajnik



Answers To Gizmo Student Exploration Titration:

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Table of Contents Answers To Gizmo Student Exploration Titration

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

- ePub, PDF, MOBI, and More
- Answers To Gizmo Student Exploration Titration Compatibility with Devices
- Answers To Gizmo Student Exploration Titration Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Gizmo Student Exploration Titration
 - Highlighting and Note-Taking Answers To Gizmo Student Exploration Titration
 - Interactive Elements Answers To Gizmo Student Exploration Titration
- 8. Staying Engaged with Answers To Gizmo Student Exploration Titration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers To Gizmo Student Exploration Titration
- 9. Balancing eBooks and Physical Books Answers To Gizmo Student Exploration Titration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Gizmo Student Exploration Titration
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers To Gizmo Student Exploration Titration
 - Setting Reading Goals Answers To Gizmo Student Exploration Titration
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers To Gizmo Student Exploration Titration
 - Fact-Checking eBook Content of Answers To Gizmo Student Exploration 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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