

Student Exploration: Titration

Activity A:
Acids and basesGet 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:

Answer Sheet For Titration On Gizmo

Roman Wölfel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Table of Contents Answer Sheet For Titration On Gizmo

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

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