

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:



Answer Sheet For Titration On Gizmo

Tao Wei

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

Answer Sheet For Titration On Gizmo:

The book delves into Answer Sheet For Titration On Gizmo. Answer Sheet For Titration On Gizmo is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Sheet For Titration On Gizmo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Answer Sheet For Titration On Gizmo
- Chapter 2: Essential Elements of Answer Sheet For Titration On Gizmo
- Chapter 3: Answer Sheet For Titration On Gizmo in Everyday Life
- Chapter 4: Answer Sheet For Titration On Gizmo in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Answer Sheet For Titration On Gizmo. This chapter will explore what Answer Sheet For Titration On Gizmo is, why Answer Sheet For Titration On Gizmo is vital, and how to effectively learn about Answer Sheet For Titration On Gizmo.
3. In chapter 2, this book will delve into the foundational concepts of Answer Sheet For Titration On Gizmo. The second chapter will elucidate the essential principles that need to be understood to grasp Answer Sheet For Titration On Gizmo in its entirety.
4. In chapter 3, the author will examine the practical applications of Answer Sheet For Titration On Gizmo in daily life. The third chapter will showcase real-world examples of how Answer Sheet For Titration On Gizmo can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Answer Sheet For Titration On Gizmo in specific contexts. This chapter will explore how Answer Sheet For Titration On Gizmo is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Answer Sheet For Titration On Gizmo. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Sheet For Titration On Gizmo.

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