

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:



Titration Gizmo Answer Key Teacher Guide

SJ Ball



Titration Gizmo Answer Key Teacher Guide:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Titration Gizmo Answer Key Teacher Guide**

In some sort of inundated with displays and the cacophony of fast transmission, the profound energy and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, located within the lyrical pages of **Titration Gizmo Answer Key Teacher Guide**, a fascinating work of fictional beauty that impulses with fresh feelings, lies an unique journey waiting to be embarked upon. Written with a virtuoso wordsmith, this interesting opus manuals readers on a psychological odyssey, softly revealing the latent possible and profound affect embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect its captivating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

<https://ftp.barnabastoday.com/files/detail/fetch.php/Yamaha%20Fz6n%20Service%20Manual.pdf>

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