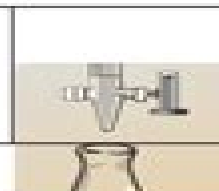


Student Exploration: Titration

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:



Teacher Guide Titration Gizmo

Jin-Ying Zhang

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

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A simulated environmental problem is the focus of applying the steps of the scientific process The problem is the mysterious appearance of a coating of white powder around the school yard Students are challenged to identify the powder and its origin As they meet this challenge they learn that systematic gathering organizing and analyzing of information are a way of coming to understand events in the natural world Each Teacher Guide includes Specific teaching and management strategies Detailed teaching sequences for teaching the first three phases of the Learning Experience Getting Started Exploring and Discovering and Processing For Meaning Reproducible masters for Student Science Notebook pages Group Recording Sheets and Home School Worksheets Extension activities in science language arts and social studies Assessment materials an introductory questionnaire embedded assessments and a final questionnaire consisting of performance and written components Science Background provides general science concepts as they are introduced and developed in the module to help prepare teacher Teacher and Student Resources section annotated lists of children s books teacher reference books and technological aids

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