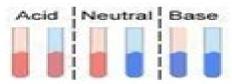
#### Student Exploration: Titration

#### Answers in the orange boxes

Vocabulary: acid, analyte, base, dissociate, equivalence point, indicator, litmus paper, molarity, neutralize, pH, strong acid, strong base, titrant, titration, titration curve, weak acid, weak base

Prior Knowledge Questions (Do these BEFORE using the Gizmo.) There are several definitions of acids and bases. According to the Brensted-Lowry definition, an acid is a substance that is capable of donating a proton to another substance. A base is a substance that accepts protons. When an acid and a base are combined, the acid is neutralized as the base accepts the protons produced by the acid.



One way to determine if a solution is acidic or basic is to use litmus paper, as shown above. There are two types of litmus papers; red and blue.

How does litmus paper indicate an acid?

How does litmus paper indicate a neutral substance?

How does litmus paper indicate a base?

It turns red.

Red and blue strips stay the same (stay blue and medit.

It turns blue.

#### Gizmo Warm-up

Litmus is an example of an indicator, a substance that changes color depending on its pH (pH is a measure of the concentration of protons, or H\* ions). In the Titration Gizmo, you will use indicators to show how acids are neutralized by bases, and vice versa.

To begin, check that 1.00 M NaOH is selected for the Burette, Mystery HBr is selected for the Flask, and Bromthymol blue is selected for the Indicator.

- Look at the flask. What is the color of the bromthymol blue indicator?
- 2. What does this tell you about the pH of the solution in the flask?

Biomet.

It is acidic (below 6.0)

Yellow/orange

Solutions with a pH below 7.0 are acidic, while those with a pH above 7.0 are basic.

Move the slider on the burette to the top to add about 25 mL of NaOH to the flask. What happens, and what does this tell you about the pH of the flask? It turns blue. This means the pH is above 7.6)

# **Titration Chem Study Guide Answers**

**YCT Expert Team** 

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Chemical Principles Study Guide/Solutions Manual John Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications Chemical Principles Student's Study Guide & Solutions Manual John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text "O" Level Study Guide - Chemistry Quite Easily Done,

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Christopher Talbot, Richard Harwood, 2017-07-24 Exam Board IB Level IB Subject Chemistry First Teaching September 2014
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Focus revision with key terms and definitions listed for each topic sub topic

Student's Guide to Fundamentals of
Chemistry Jo A. Beran, 2013-10-22 Student's Guide to Fundamentals of Chemistry Fourth Edition provides an introduction to
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chemistry Organized into 25 chapters this edition begins with an overview of how to define and recognize the more common
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