



## Titration

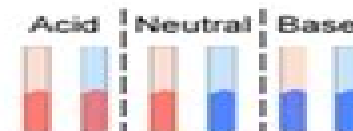
## Answer Key

**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.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

There are several definitions of acids and bases. According to the Brønsted-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? *Both strips turn red.*

How does litmus paper indicate a neutral substance? *The red strip stays red and the blue strip stays blue.*

How does litmus paper indicate a base? *Both strips turn 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**.



1. Look at the flask. What is the color of the bromthymol blue indicator? *Yellow*

2. What does this tell you about the pH of the solution in the flask? *pH is below 7.0*

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

3. 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?

*The solution turns blue, indicating the pH is now above 7.6.*



# Gizmo Titration Answers

**Bloomsbury Publishing**



# Gizmo Titration Answers

**SpringBoard Mathematics**, 2015      **Study Skills for Science, Engineering and Technology Students** Pat Maier, Anna Barney, Geraldine Price, 2013-11-26 An accessible student friendly handbook that covers all of the essential study skills that will ensure that Science Engineering or Technology students get the most out of their course Study Skills for Science Engineering Technology Students has been developed specifically to provide tried tested guidance on the most important academic and study skills that students require throughout their time at university and beyond Presented in a practical and easy to use style it demonstrates the immediate benefits to be gained by developing and improving these skills during each stage of their course      *Redirecting Innovation in U.S. Health Care* Steven Garber, 2014-03-31 New medical technologies are a leading driver of U S health care spending This report identifies promising policy options to change which medical technologies are created with two related policy goals 1 Reduce total health care spending with the smallest possible loss of health benefits and 2 ensure that new medical products that increase spending are accompanied by health benefits that are worth the spending increases      Using Research and Reason in Education Paula J. Stanovich, Keith E. Stanovich, 2003 As professionals teachers can become more effective and powerful by developing the skills to recognize scientifically based practice and when the evidence is not available use some basic research concepts to draw conclusions on their own This paper offers a primer for those skills that will allow teachers to become independent evaluators of educational research      **Chemistry** William L. Masterton, 1993 This new edition of CHEMISTRY PRINCIPLES AND REACTIONS continues to provide students with the core material essential to understanding the principles of general chemistry Masterton and Hurley cover the basics without sacrificing the essentials appealing to several markets Appropriate for either a one or two semester course CHEMISTRY PRINCIPLES AND REACTIONS Fifth Edition is three hundred pages shorter than most general chemistry texts and lives up to its long standing reputation as THE student oriented text Though this text is shorter in length than most other General Chemistry books it is not lower in level and with the addition of the large volume of content provided by the revolutionary GENERAL CHEMISTRY INTERACTIVE 3 0 CD ROM that is included with every copy it has a depth and breadth rivaling much longer books      **Business Law in Canada** Richard Yates, 1998-06-15 Appropriate for one semester courses in Administrative Law at both college and university levels Legal concepts and Canadian business applications are introduced in a concise one semester format The text is structured so that five chapters on contracts form the nucleus of the course and the balance provides stand alone sections that the instructor may choose to cover in any order We ve made the design more reader friendly using a visually appealing four colour format and enlivening the solid text with case snippets and extracts The result is a book that maintains the strong legal content of previous editions while introducing more real life examples of business law in practice      *Everything Is Perfect When You're a Liar* Kelly Oxford, 2013-04-02

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

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

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

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

This 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 Gizmo Titration Answers.

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### **Gizmo Titration Answers Introduction**

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