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Date:

Student Exploration: Titration

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts 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 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 one 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 6.0

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 meaning the pH is now above 7.0.

Answer Key To Explore Learning Gizmo

Roman Espejo



Answer Key To Explore Learning Gizmo:

Gizmo Alan Ayckbourn, Ursula Ehler, 2001 In the first of these two plays a new technology allows a man who has been paralyzed by fear to move again and in the second a household of bizarre misfits is saved from eviction by Antunes o Rei King of Musicians Has Technology Increased Learning? Roman Espejo, 2009 From Back Cover Greenhaven Press s At Issue series provides a wide range of opinions on individual social issues Each volume focuses on a specific issue and offers a variety of perspectives eyewitness accounts governmental views scientific analysis newspaper and magazine accounts and many more to illuminate the issue Extensive bibliographies and annotated lists of relevant organizations point to sources for further research Enhancing critical thinking skills each At Issue volume is excellent research tool to help readers understand current social issues and prepare reports *Supply Chain Management, with eBook Access Code* Nada R. Sanders, 2025-01-02 Illustrates SCM best practices while helping students understand the complexities of SCM decision making Now in its fourth edition *Supply Chain Management A Global Perspective* integrates the foundational principles and business oriented functions of supply chain management SCM in one comprehensive volume Providing students with a balanced and integrated perspective with a global focus this market leading textbook highlights the holistic and interconnected nature of SCM while addressing supply chain strategy design planning sourcing logistics forecasting demand planning operations management and more A standard text at universities around the world *Supply Chain Management* offers cross functional coverage a student friendly pedagogy and a wealth of real world examples of SCM in companies of various sizes Author Nada R Sanders draws upon her extensive experience in academia and industry to provide both the foundational material required to understand the subject matter and practical tips that demonstrate how the latest techniques are being applied Supply chain management is advancing rapidly and becoming ever more important in the global business climate Covering both the underlying principles and practical techniques of SCM *Supply Chain Management A Global Perspective Fourth Edition* remains an ideal textbook for upper level undergraduate courses in Operations Management Supply Chain Management and Logistics Management programs New to this Edition Updated content in each chapter illustrating the latest business practices in the context of SCM Increased focus on new and emerging technologies including AI that are changing supply chains New real world examples of key concepts applied to supply chains of companies of various sizes and sectors New discussion topics reflecting recent international government and organizational policy issues relevant to SCM New and updated cases discussion questions examples and classroom exercises Wiley Advantage Provides consistent and fully integrated coverage of all key areas of SCM concepts strategic implementations and operational techniques Examines supply chain management as a boundary spanning function that is intertwined with other organizational areas Discusses how recent developments in trade tax tariffs data protection and national security impact the global supply change Contains extensive pedagogical tools and solved problems designed to make difficult concepts

accessible Features a wealth of cases and examples of the latest business practices in supply chain management Includes access to a companion website with an extensive test bank PowerPoint slides an instructor s manual and other teaching resources Critical Thinking for Business Students Linda Dyer,2006

Educational Technology Integration

Foundations Mark Page-Botelho,2012-05-01 Educational Technology is a field that can be complex with many facets that need to be taken into consideration to successfully integrate into classrooms This book is a accumulation of many years work in the field and covers every aspect of integration The book is intended as a resource to skip through to help guide those looking for ideas especially for those new to technology For those who have a solid foundation can find information about often overlooked topics or topics not often thought about that can improve a pre existing program *Essentials of Health*

Care Marketing Berkowitz,2016-08-15 Essentials of Health Care Marketing Fourth Edition will provide your students with a foundational knowledge of the principles of marketing and their particular application in health care Moreover the text offers a perspective on how these principles must shift in response to the changing environmental forces that are unique to this market

Software Conflict 2.0 Robert L. Glass,2006 The nearly 60 essays in this book always easily digestible often profound and never too serious take up large themes and important questions never shying away from controversy Computer Books

Studying Programming Sally Fincher,2006-02-13 We ve written this book to support students in studying programming It is not a text to teach any particular programming language but to be used alongside such a book or in conjunction with a taught course In Studying Programming we concentrate on what other books consider too obvious or too basic We explain the ideas that others assume you know we describe the things that can make learning to program a frustrating experience if you don t know them We stay with you through the process from starting with your very first blank screen to working on complex problems within a team Studying Programming has been written by 9 members of the Computing Education Research Group at the University of Kent All of us are practicing computing academics who also have a research interest in CS education So we have a strong classroom background teaching students on a daily basis and a strong research background knowing what has been investigated and written on with regard to students knowledge conception and difficulties in introductory programming

It's a Jungle in There David A. Rosenbaum,2014-05 It s a Jungle in There proposes that the overarching theory of biology Darwin s theory should be applied to cognitive psychology Taking this approach David Rosenbaum suggests that the phenomena of cognitive psychology can be understood as emergent interactions among dumb neural elements competing and cooperating in a kind of inner jungle

Managing Innovation Joe Tidd,John R. Bessant,2018-06-05 Managing Innovation is the bestselling text for graduate and undergraduate students and a classic in the field Emphasizing practical evidence based tools and resources this title provides students with the knowledge base to successfully manage innovation technology and new product development The holistic approach addresses the interplay between the markets technology and the organization while relating the unique skill set required to manage

innovation and innovation processes The sixth edition of Managing Innovation continues to include the popular Innovation in Action sections in each chapter which are now newly titled Case Studies and also features a number of new cases updated and new research notes and references and links to videos audio interviews activities and case studies The sixth edition also features new material on emerging innovation themes including business model innovation user innovation crowd sourcing creativity entrepreneurship service innovation public services and more The rapid pace of the field s evolution has brought an increase in multi disciplinary approaches and skills while expanding the available tool kit and pushing the boundaries of possibility forward This text provides expert navigation through the abundance of new data new methods new concepts and approaches but it is designed to encourage and support tailored experimentation not replace it Equipped with a strong foundation and a productive innovation management mindset todays students will be equipped to bring about the eras next great advances

The Top Books of the Year Answer Key To Explore Learning Gizmo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Answer Key To Explore Learning Gizmo : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answer Key To Explore Learning Gizmo : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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