

Name:

Date:

Student Exploration: Equilibrium and Concentration

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: chemical equilibrium, concentration, equilibrium, equilibrium constant, reaction quotient, reversible reaction

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Gary has \$5,000 in his bank account and earns a modest salary. Every month he pays for rent, food, utilities, and entertainment.

A. How will Gary's account change if he saves more than he spends?

B. How will Gary's account change if he spends more than he saves?

C. What happens if Gary spends exactly as much as he saves?

Gizmo Warm-up

If Gary spends exactly as much as he earns, his savings will be in **equilibrium**. Equilibrium occurs when two opposing processes occur at the same rate, leading to no net change. In the *Equilibrium and Concentration* Gizmo, you will investigate how equilibrium can occur in chemical reactions.

To begin, check that **Reaction 1** is selected. Set **Moles NO_2** to 8 and **Moles N_2O_4** to 0.



1. Click **Play** () and observe the colliding molecules. What do you notice?

In the Gizmo, a blue flash appears every time two reactants combine to form a product. A red flash appears every time a product dissociates into reactants.

2. Click **Reset** () and set **Moles NO_2** to 0 and **Moles N_2O_4** to 8. Click **Play**.

What do you notice now?

3. When a reaction can proceed in either direction, it is a **reversible reaction**. Based on what you have observed, is the synthesis of NO_2 into N_2O_4 a reversible reaction? Explain.

All Gizmo Answer Key

Mindy Chen-Wishart

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

All Gizmo Answer Key:

Content is King David Chaffey, David Mill, 2012-05-23 A growing number of information providers are now online and as a result being able to produce copy that is suitable for an online readership is of increasing importance In this text the basic principles of copywriting are covered along with more specific guidance on writing for online sources The differences between writing for online and offline are highlighted to enable the reader to distinguish between the two and consequently write the best form of copy for the end source Different sources of online content require different approaches and therefore the author takes a structured approach taking each of these channels in turn for example writing for web sites writing for email ezines and newsletters writing for search engines and writing for online ads By approaching each topic individually specific guidance is provided enabling the reader to be properly equipped with the tools required to write the most appropriate copy for the task in hand Electric Sheep: The Foragers (Super Science Showcase Adventures #2) Alicia Cole, Lee Fanning, 2022-06-17 After a mysterious energy flux is detected on the war torn alien world of Bathsheba The Foragers a crew of cosmic archaeologists set out to find what's causing it But when they uncover an elaborate artificial afterlife that's been buried for millennia they realize they might have fallen for a trap that could put the entire galaxy in danger and even force their robot protector Gizmo to turn against them This exciting adventure also includes real science facts and a bonus activities section Super Science Showcase Smart Adventures for Smart Kids *The System of Objects* Jean Baudrillard, 2020-03-24 The System of Objects is a tour de force a theoretical letter in a bottle tossed into the ocean in 1968 which brilliantly communicates to us all the live ideas of the day offering a cultural critique of the commodity in consumer society *Murder in the Keys* Victoria DeLuis, A snapshot of paradise a frame for murder When freelance photographer Melody Scott arrived in the Florida Keys she expected to capture its stunning natural beauty but her assignment in the tranquil town of Bluebridge quickly spirals into a deadly mystery when a controversial property developer is found dead Amidst the squawking of parrots and the clinking of glasses Melody and her old college friend Harry find themselves at the heart of a murder that threatens to tear their paradise apart Will Melody's lens focus on the truth or will the secrets of Bluebridge be buried beneath the sands Dive into Murder in the Keys and join Melody as she unravels a mystery where paradise isn't all that it seems *Computerworld*, 1991-08-26 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network **Prepared to Answer**, *Maverick* Melissa Stevens, 2023-01-10 Maverick is back in town after a two year undercover assignment and he just wants to get settled back into his life and club A lot of things have changed New men new chapters new rules around the clubhouse There are women managing the clubhouse and first rattle out of the box he insults his Vice President's woman by propositioning her How does one apologize for something like that He

s got a lot of figuring out to do now that he s home Dana likes her life She loves her little chocolate shop and is content with her life Until a strange man seems to step out of the fog after a fender bender She was about to ask who he was when he disappeared just as fast Haunted by the memory of the mystery man she wonders if she ll ever see him again not likely in a city the size of Tucson or is it

Word 2013 For Dummies Dan Gookin,2013-04-03 Whether you ve used other versions of this popular program or never processed a single word this guide will get you going with Word 2013 Report Allan Mark Davis,C. K. Wong,Donald Jay Hoffman,Edward Neufville Adams,Mark Loren Ketelsen,Trevor Nigel Mudge,1965 Selling All-in-One For Dummies The Experts at Dummies,2012-01-05 Tried and true information and tips for selling like a pro Are you looking to enter the world of sales or are you already a salesperson who s looking for new tips and tactics to expand your business Whether you re in charge of your own selling career or you re responsible for training and managing a professional sales force Selling All In One For Dummies features everything you need to know to improve your results This valuable selling resource includes new ways to effectively network and prospect through the power of all the social media networking sites such as LinkedIn Twitter and Facebook as well as ways to optimize sales success through Webinars the latest tips and advice to build an appealing image proven questioning methods that close sales updated advice on keeping clients business and building their loyalty and how to adapt presentations and techniques Proven methods and techniques that will lead to bigger sales and more loyal customers Advice on separating yourself from the pack Plus four chapters on selling in specialized areas from biotechnology to real estate Selling All In One For Dummies is the authoritative guide to navigating the ever changing and growing sales arena InfoWorld ,1982-02-22 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Texas Bar Journal** ,1996 Pournelle's PC Communications Bible Jerry Pournelle,Michael A. Banks,1992 The ultimate guide to productivty with a modem This combination reference and how to guide is friendly candid and filled with facts about every aspect of telecommunications PC communications is a huge market the three largest services Compuserve PRODIGY and Dow Jones have more than 4 million subscribers Pournelle connects to this audience **The Devil's Madonna** Sharon Potts,2012-08-25 Happily married and pregnant with her first child artist Kali Miller probes Lillian Campbell her ninety three year old grandmother for information about her roots and her mother s accidental death when Kali was a child But the impact on her grandmother and the answers that Kali gets are anything but what she expected Kali s questions intensify the profound paranoia that has dominated her grandmother s adult life that someone from the past has found her and with Kali s demand for the truth Lillian sinks into a life of nightmares and paralyzing fear Will her life in 1930 s Berlin her loves and lies and the true meaning of the small painting that she has hidden for more than seventy years be exposed to reveal the hideous secret that has haunted Lillian to this day Or will the hunt to uncover her past lead to the imminent murder of Lillian and her pregnant granddaughter Perhaps murder is the only means to keep Kali and her unborn child from a future that no one in the

world would ever want to face **The Design, Implementation, and Analysis of a Computer-assisted Instruction System on a Mini-computer** Allan Mark Davis,1973 **Spectrum Language Arts, Grade 1** Spectrum,2014-08-15 An understanding of language arts concepts is key to strong communication skills the foundation of success across disciplines Spectrum Language Arts for grade 1 provides focused practice and creative activities to help your child master punctuation parts of speech and capitalization This comprehensive workbook doesn t stop with focused practice it encourages children to explore their creative sides by challenging them with thought provoking writing projects Aligned to current state standards Spectrum Language Arts for grade 1 includes an answer key and a supplemental Writer s Guide to reinforce grammar and language arts concepts With the help of Spectrum your child will build the language arts skills necessary for a lifetime of success **The Mailbox 2000-2001 Intermediate Yearbook** Becky S. Andrews,2001 Harvey Drew and the Junk Skunks Cas Lester,2015-07-02 The Toxic Spew is back and in even more trouble than usual WOOP WOOP WOOP ALARM ALARM ALARM It s chaos once more on the bridge of the Toxic Spew But this time the ship s problems are of a most human nature they ve run out of food Mutiny cannibalism and plain old theft are suggested as potential problem solvers but Captain Harvey politely requests that the crew buck their ideas up and think of something else At which point the ISS is mentioned no not the International Space Station the Interstellar Service Station But the ISS is spookily deserted when the team arrive and it s not long before Harvey suspects there s something fishy going on and he s not just talking about the Spew s malfunctioning rubbish chute Can Harvey unite his crew one more time and solve the mystery of the abandoned space station Will Scrummage really eat Yargal if they don t find some food And will Harvey EVER get home Join the gang for another rip roaring space hopping and frankly stomach turning adventure on the universe s worst intergalactic rubbish truck and see if you can spot the special input from kids on The Story Adventure **Contract Law** Mindy Chen-Wishart,2018 This textbook provides an accessible account of the intricacies of contract law and the problems that can arise during the life of a contract These problems along with their solutions are discussed in detail using everyday language that stimulates thought and reflection Forbes ,2000

All Gizmo Answer Key: Bestsellers in 2023 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 bestselling books, exploring the fascinating narratives that have enthralled audiences this year. All Gizmo Answer Key : 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 prevail. Uncover the Best : 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 captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. All Gizmo Answer Key : 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 crafts 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 captivating 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 brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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