



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? _____ goes up

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

C. What happens if Gary spends exactly as much as he saves? _____ stays teh same

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 NO₂** to 8 and **Moles N₂O₄** to 0.



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

the molecules combine

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 NO₂** to 0 and **Moles N₂O₄** to 8. Click **Play**.

What do you notice now? _____ they break apart

3. When a reaction can proceed in either direction, it is a **reversible reaction**. Based on what you have observed, is the synthesis of NO₂ into N₂O₄ a reversible reaction? Explain.

yes

Gizmo Answer Key

Christian G. Meyer

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

The System of Objects Jean Baudrillard,2020-04-07 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 Pressing Freudian and Saussurean categories into the service of a basically Marxist perspective The System of Objects offers a cultural critique of the commodity in consumer society Baudrillard classifies the everyday objects of the new technical order as functional nonfunctional and metafunctional He contrasts modern and traditional functional objects subjecting home furnishing and interior design to a celebrated semiological analysis His treatment of nonfunctional or marginal objects focuses on antiques and the psychology of collecting while the metafunctional category extends to the useless the aberrant and even the schizofunctional Finally Baudrillard deals at length with the implications of credit and advertising for the commodification of everyday life The System of Objects is a tour de force of the materialist semiotics of the early Baudrillard who emerges in retrospect as something of a lightning rod for all the live ideas of the day Bataille s political economy of expenditure and Mauss s theory of the gift Reisman s lonely crowd and the technological society of Jacques Ellul the structuralism of Roland Barthes in The System of Fashion Henri Lefebvre s work on the social construction of space and last but not least Guy Debord s situationist critique of the spectacle *Inside LightWave 3D* Dan Ablan,Patrik Beck,1997 Inside LightWave 3D 5 5 offers complete coverage of LightWave s capabilities by building on the program s documentation In addition it covers all the new features of version 5 5 and explains the most popular plug ins available The CD ROM features exercise files sample animations and models and demos *The Mailbox 2000-2001 Intermediate Yearbook* Becky S. Andrews,2001 *Report* Allan Mark Davis,C. K. Wong,Donald Jay Hoffman,Edward Neufville Adams,Mark Loren Ketelsen,Trevor Nigel Mudge,1965 **Forbes FYI** ,1996-03-11 **The St. Andrews Werewolf (Novel Study) Gr. 6-8**

Sherry R. Bennett,Marie M. Fraser,1998-01-01 The St Andrews Werewolf finds Liz Austen in St Andrew s New Brunswick were she lands a role in a summer production of Annie There Liz and her friend Makiko investigate the legend of the St Andrews Werewolf a series of arsons and a mysterious mansion on an island Appealing to children s inherent keen interest in

mystery Eric Wilson has skillfully woven accurate Canadian geographic and historic information into his writing As such these novels lend themselves to the integrated study of the mystery genre with Canadian geography topics in social studies and investigation units in science The St Andrews Werewolf provides rich material for the study of setting characterization and plot development This Novel Study provides a teacher and student section with a variety of activities chapter questions crossword and answer key to create a well rounded lesson plan

Forbes ,2000 The Design, Implementation, and Analysis of a Computer-assisted Instruction System on a Mini-computer Allan Mark Davis,1973 **Happy Holidays--Animated!**

William D. Crump,2019-03-11 Since the early 20th century animated Christmas cartoons have brightened the holiday season around the world first in theaters then on television From devotional portrayals of the Nativity to Santa battling villains and monsters this encyclopedia catalogs more than 1 800 international Christmas themed cartoons and others with year end themes of Hanukkah Kwanzaa and the New Year Explore beloved television specials such as A Charlie Brown Christmas theatrical shorts such as Santa s Workshop holiday episodes from animated television series like American Dad and The Simpsons feature films like The Nutcracker Prince and obscure productions such as The Insects Christmas along with numerous adaptations and parodies of such classics as A Christmas Carol and Twas the Night before Christmas

Texas Bar Journal ,1996 Navegando 1A James F. Funston,Alejandro Vargas Bonilla,2006 **Smart Negotiating** James C. Freund,1992 From a big league negotiator in the corporate takeover battles of the 1980s proven methods for achieving hard to reach agreements in everyday business situations without being either a bully or a wimp Freund explains how to select appropriate starting points on key bargaining issues devise constructive concession patterns and formulate the terms of the ultimate compromise

Public Speaking George R. Rodman,1978 Abstract The text is designed for people who need to speak in public Part I gives an overview of message preparation delivery and critical listening as basic guidelines to effective speechmaking Part II provides in depth guidelines into message preparation including focusing investigating organizing and choosing language Part III examines message strategies of audience interest explanation persuasion and humor Chapters outline the material relate it to effective speaking and provide questions for discussion The basic text encourages immediate speaking to gain confidence and experience

Language Arts Grade 2 Betty Jane Wagner,McGraw-Hill,2000-03 Includes exercises that teach the basics of grammar and writing

Object-oriented Systems Analysis Sally Shlaer,Stephen J. Mellor,1988 This book explains how to model a problem domain by abstracting objects attributes and relationships from observations of the real world It provides a wealth of examples guidelines and suggestions based on the authors extensive experience in both real time and commercial software development This book describes the first of three steps in the method of Object Oriented Analysis Subsequent steps are described in Object Lifecycles by the same authors

About Face Alan Cooper,1995-08-25 This book is intended to provide the reader with effective and practical tools for designing user interfaces It integrates tactical and strategic approaches

helping the programmer understand how the user comprehends their software **Fortune** Henry Robinson Luce,2001
Cases in Electronic Commerce Sidney Laurence Huff,Scott L. Schneberger,Michael Wade,2002 Cases in Electronic Commerce is a collection of 25 full length case studies written by professors at the renowned Richard Ivey School of Business Each case study is centered around a real world company and provides sufficient detail on the implications associated with e commerce initiatives This managerial oriented approach allows students to fully understand and appreciate the strategic tactical and operational challenges faced when launching an e commerce based business [India Today International](#),2000-10

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web advertisement the crochet vest is a type of sweater it is a sleeveless pullover that has a neckline where the front and back parts meet in a point this circular vest is also known as a round necked vest or cowl necked sweater and it is made of a tube of fabric that is crocheted in a circle and then sewn shut

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web free advanced crochet vest pattern for women this stunning crochet vest is a must for style and comfort first you crochet the circles joining them together with a join as you go technique then fill in with a meshy lace filler it's brilliant in any colors of red heart fashion soft so select shades and bring life to your favorite combination