

Equilibrium Expressions Worksheet

Look at the chemical equation $aA + bB \rightleftharpoons cC + dD$. In this reaction A, B, C, and D are chemical substances, and a, b, c, and d are the coefficients in the chemical equation. Since the equation is reversible, the reactants will not necessarily run to completion—so there won't be a limiting reactant. The forward equation and the backward equation will reach an equilibrium point where the forward equation is using A and B as fast as the backwards equation is making A and B.

If the temperature is held constant, the reaction will always reach equilibrium in such a way such that the equilibrium constant is the same. (At a different temperature the equilibrium constant for the reaction would be a constant but would be a different number.)

Equilibrium constant (K_{eq})

The relationship between the concentration of products and reactants at equilibrium can be expressed by an equilibrium constant K_{eq} (or K). Given the chemical equation in the form $aA + bB \rightleftharpoons cC + dD$, K_{eq} is found by the equation

$$K_{eq} = \frac{[C]^c [D]^d}{[A]^a [B]^b}$$

Note: [] denotes molar concentrations.

But when writing equilibrium expressions, reactants or products that are pure solids or pure liquids do not appear in the expression since no matter how much of it there is its density, and therefore its concentration, is always the same.

1. Write equilibrium expressions for each in the box provided:

- a. $O_3(g) + NO(g) \rightleftharpoons O_2(g) + NO_2(g)$
- b. $2CO(g) + O_2(g) \rightleftharpoons 2CO_2(g)$
- c. $NH_4NO_3(s) \rightleftharpoons N_2O(g) + 2H_2O(l)$
- d. $2H_2O(g) \rightleftharpoons 2H_2(g) + O_2(g)$

a.

b.

c.

d.

Calculations involving K_{eq}

The concentrations of the solutions/gases involved in the reversible reactions **at equilibrium** are known as the equilibrium concentrations. Since K_{eq} represents the system at equilibrium, only the equilibrium concentrations can be used in the equilibrium expression (not the initial concentrations).

2. $PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$. What is the equilibrium constant if the equilibrium concentrations are as follows: PCl_5 is 0.0096 mol/L, PCl_3 is 0.0247 mol/L and Cl_2 is 0.0247 mol/L? Ans: 0.064

3. At 1000°C, a 1.00 L container has an equilibrium mixture consisting of 0.102 mol of ammonia, 1.03 mol of nitrogen, and 1.62 mol of hydrogen. Calculate the K_{eq} for the equilibrium system. $N_2(g) + 3H_2 \rightleftharpoons 2NH_3(g)$ Ans: 0.00238

4. At a given temperature, the K_{eq} for the reaction $2HI(g) \rightleftharpoons H_2(g) + I_2(g)$ is 1.40×10^{-2} . If the concentration of both H_2 and I_2 at equilibrium are $2.00 \times 10^{-4}M$, find the concentration of HI. Ans: 0.00169M

Genetic Equilibrium Worksheet 16 1

Albert A Gayle



Genetic Equilibrium Worksheet 16 1:

Advanced Pre-Med Studies (Teacher Guide) Gary Parker, Alan Gillen, John Hudson Tiner, 2016-09-06 The vital resource for grading all assignments from the Advanced Pre Med Studies course which includes The fascinating history of medicine providing students with a healthy dose of facts mini biographies and vintage illustrations Insight into how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ OVERVIEW From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic course helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process FEATURES The calendar provides lesson planning with clear objectives and the worksheets and quizzes are all based on the materials provided for the course *Advanced Pre-Med Studies Parent Lesson Plan*, 2013-08-01 Advanced Pre Med Studies Course Description Semester 1 From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In *Exploring the History of Medicine* author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in *The Genesis of Germs* He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ Semester 2 *Body by Design* defines the basic anatomy and physiology in each of 11 body systems from a creationist viewpoint Every chapter explores the wonder beauty and creation of the human body giving evidence for creation while exposing faulty evolutionist reasoning Special explorations into each body system look closely at disease aspects current

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begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in this revealing and detailed book He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

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Geochemistry International ,1997-07 Vols for 1964 v 2 no 1 1965 include selected articles translated from geochemical papers from other languages but primarily from Russian German French and Japanese Progress in Forensic Genetics 11 International Society for Forensic Genetics. Congress,2006 This volume contains mainly short three page manuscripts of the oral and poster presentations at the congress The manuscripts have been through a reviewing and an editing procedure *Biology of Animal Behavior* James W. Grier,1984 *Plant Pathology Concepts and Laboratory Exercises* Bonnie H. Ownley,Robert N. Trigiano,2016-11-03 Explains disease characteristics of organisms that cause disease and how diseases interact with hosts and the environment Presents useful protocols procedures and advanced laboratory exercises with anticipated results and thought provoking questions Provides case studies of specific diseases and processes presented as a bulleted list supplying essential information at a glance Contains downloads with supplemental full color photos and PowerPoint slides to enhance understanding of material Includes complete updates to previous edition and full color illustrations **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2002

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