

Lab: Dynamic Equilibrium Simulation

FOR THE TEACHER

Summary

In this lab, students will explore equilibrium using paper clips to mimic a chemical reaction.

Resource Type
Lab

Grade Level
High School

Objectives

By the end of this lesson, students should be able to

- Better understand what it means for a system to reach equilibrium.

Chemistry Topics

This lesson supports students' understanding of

- Equilibrium
- Le Châtelier's Principle

Time

Teacher Preparation: 30 minutes

Lesson: 1 hour

Materials

For each group:

- ~60 paper clips
- timer

Safety

No notable safety precautions need to be observed for this lab.

Teacher Notes

- Students should work in groups of four: Two people will put paper clips together, one person will take paper clips apart, and one person will be the timer and record data.
- Students are required to generate their own data table for the three parts.

FOR THE STUDENT

Student Activity Sheet: Dynamic Equilibrium Simulation Lab

Lesson

Background

You will be modeling the reaction:



by putting paper clips together (forward reaction) and taking them apart (reverse reaction). This simulation allows you to "stop" the reaction after a certain amount of time so that you can monitor the "concentrations" of the reactants and products.

Submitted by:

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Skyline High School in
Sammamish, Washington

Thanks to:

Ward's Science

Dynamic Equilibrium Lab Manual

D Keegan



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Laboratory Manual of Biomathematics Raina Robeva, James R. Kirkwood, 2007-08-28 Laboratory Manual of Biomathematics is a companion to the textbook An Invitation to Biomathematics This laboratory manual expertly aids students who wish to gain a deeper understanding of solving biological issues with computer programs It provides hands on exploration of model development model validation and model refinement enabling students to truly experience advancements made in biology by mathematical models Each of the projects offered can be used as individual module in traditional biology or mathematics courses such as calculus ordinary differential equations elementary probability statistics and genetics Biological topics include Ecology Toxicology Microbiology Epidemiology Genetics Biostatistics Physiology Cell Biology and Molecular Biology Mathematical topics include Discrete and continuous dynamical systems difference equations differential equations probability distributions statistics data transformation risk function statistics approximate entropy periodic components and pulse detection algorithms It includes more than 120 exercises derived from ongoing research studies This text is designed for courses in mathematical biology undergraduate biology majors as well as general mathematics The reader is not expected to have any extensive background in either math or biology Can be used as a computer lab component of a course in biomathematics or as homework projects for independent student work Biological topics include Ecology Toxicology Microbiology Epidemiology Genetics Biostatistics Physiology Cell Biology and Molecular Biology Mathematical topics include Discrete and continuous dynamical systems difference equations differential equations probability distributions statistics data transformation risk function statistics approximate entropy periodic components and pulse detection algorithms Includes more than 120 exercises derived from ongoing research studies

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