Lab # : Virtual Lab — Population Biology Problem How does competition affect population growth?

Background (Read the background in order to answer the Pre-Lab Questions that follow)

The genus Paramecium includes several species of one-celled protists that live in freshwater. When there is enough food, water, and space, populations of these species grow rapidly and follow a pattern known as exponential growth, in which the total number of potentially reproducing organisms increases with each generation. However, populations of any organism will not increase indefinitely. Eventually, limitations on food, water, and other resources will cause the population to stop increasing.



Parameter

Paramoctus Calcolistum

When a population arrives at the point where its size remains stable, it has reached the carrying capacity of the environment. The carrying capacity is the greatest number of individuals a given environment can sustain. Competition for resources among members of a population (intraspecific competition) places limits on population size.

Competition for resources among members of two or more different species (interspecific competition) also affects population size. In a classic series of experiments in the 1930s, a Russian ecologist, G.F. Gause, formulated his principal of competitive exclusion. This principle states that if two species are competing for the same resource, the species with a more rapid growth rate will outcompete the other. In other words, no two species can occupy the same niche.

In competing populations of organisms, genetic variations that reduce competition are favored through natural selection. Suppose two species (A and B) compete for the same food source. Individuals of species A can also use another food source, which reduces the competition over the food source needed by species B. The individuals of species A that can use another food source survive because they do not have to compete with individuals of species B for that food. In nature, organisms frequently invade unoccupied habitats simply to avoid intense competition. Once the organism is in a new habitat, any variations that allow it to use the available resources will tend to be perpetuated through the population. In this way, the genetic makeup of the population may slowly change, and the species will become adapted to a new niche.

Objectives

- Conduct an experiment on two species of the protozoan Paramecium, growing each alone and then growing them together.
- Graph and compare growth curves of the populations of each species, alone and together.
- Show how competition for natural resources in the environment can affect population growth.
- Explain how availability of resources, such as food, can be limiting factors for populations.

Materials: cultures of Paramecium caudatum and P. Aurelia

Procedure: See Virtual Lab at web site http://glencoe.mcgraw-hill.com/sites/dl/free/0078757134/383928/BL 04.html

Population Biology Virtual Lab Answer

B Lingard

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online learning moving forward the book will be highly relevant to researchers academics and students in the fields of higher education online and eLearning and technology in education **Artificial Intelligence in Education** C.-K. Looi, G. McCalla, B. Bredeweg, 2005-07-14 The field of Artificial Intelligence in Education includes research and researchers from many areas of technology and social science This study aims to open opportunities for the cross fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area Carolina Science and Math Carolina Biological Supply Company, 2003 **Forensic Biology** Max M. Houck, 2015-01-08 Forensic Biology provides coordinated expert content from world renowned leading authorities in forensic biology Covering the range of forensic biology this volume in the Advanced Forensic Science Series provides up to date scientific learning on DNA analysis Technical information written with the degreed professional in mind brings established methods together with newer approaches to build a comprehensive knowledge base for the student and practitioner alike LIke each volume in the Advanced Forensic Science Series review and discussion questions allow the text to be used in classrooms training programs and numerous other applications Sections on fundamentals of forensic science history safety and professional issues provide context and consistency in support of the forensic enterprise Forensic Biology sets a new standard for reference and learning texts in mondern forensic science Advanced articles written by international forensic biology experts Covers the range of forensic biology including methods and interpretation Includes entries on history safety and professional issues Useful as a professional reference advanced textbook or training review Handbook of Evolutionary Research in Archaeology Anna Marie Prentiss, 2019-06-03 Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology The book will provide a single source for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process human ecology studies evolutionary ecology demography and niche construction and evolutionary cognitive archaeology Authors of individual chapters will address theoretical foundations history of research contemporary contributions and debates and implications for the future for their respective topics As appropriate authors present or discuss short empirical case studies to illustrate key arguments

Learning, Problem Solving, and Mindtools J. Michael Spector, Barbara B. Lockee, Sharon Smaldino, Mary Herring, 2013-04-12 Learning Problem Solving and Mindtools is inspired by the substantial body of learning research by David H Jonassen in the areas of mind tools and problem solving The focus of the volume is on educational technology especially with regard to how new technologies have facilitated and supported problem solving and critical thinking Each chapter focuses on a particular aspect of learning with technology and elaborates the implications for the design and implementation of learning environments and activities aimed at improving the conceptualization of problems reasoning and higher order thinking and solving challenging problems This collection of scholarly essays provides a highly engaging

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settings What are appropriate output measures and how are they used in practice What collaborations emerge from STEM FD How does STEM FD affect other STEM stakeholders e g students administration business community The aim for this handbook was to examine the multifaceted demands of faculty roles and together with members of the STEM education community envision pathways through which universities and individuals may support STEM colleagues regardless of their experience or rank to enjoy long and satisfying careers Our hope is for these chapters to aid readers in deep reflection on challenges faculty face to contemplate adaptations of models presented and to draw inspiration for creating or engaging in new professional development programs Chapters across this handbook highlight a variety of institutional contexts from 2 year technical colleges to teaching focused institutions in addition to research centric settings Some chapters focus primarily on teaching and learning practices and offer models for improving STEM instruction Others focus on barriers that emerge for STEM faculty when trying to engage in development experiences There are chapters that examine tenure structures in relation to faculty development and how STEM FD efforts could support research endeavors Mentorship and leadership models are also addressed along with a focus on equity issues that permeate higher education and impact STEM FD It is our sincere hope that this Handbook sparks increased discourse and continued explorations related to STEM FD and in particular the intentional focus of faculty development initiatives to extend to the many facets of academic life Computing Technologies in Agriculture Daoliang Li, Yingyi Chen, 2012-01-12 The three volume set IFIP AICT 368 370 constitutes the refereed post conference proceedings of the 5th IFIP TC 5 SIG 5 1 International Conference on Computer and Computing Technologies in Agriculture CCTA 2011 held in Beijing China in October 2011 The 189 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture including simulation models and decision support systems for agricultural production agricultural product quality testing traceability and e commerce technology the application of information and communication technology in agriculture and universal information service technology and service systems development in rural areas The 68 papers included in the second volume focus on GIS GPS RS and precision farming **Cumulated Index** Medicus .2000 Marine Fisheries Review .1992 **Nuclear Science Abstracts** .1969 Computational Intelligence Methods for Bioinformatics and Biostatistics Andrea Bracciali, Giulio Caravagna, David Gilbert, Roberto Tagliaferri, 2017-10-14 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2016 held in Stirling UK in September 2016 The 19 revised full papers and 6 keynotes abstracts presented were carefully reviewed and selected from 61 submissions The papers deal with the application of computational intelligence to open problems in bioinformatics biostatistics systems and synthetic biology medicalinformatics computational approaches to life sciences in general Creating Project-Based STEM *Environments* Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project based environments that

are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

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