

POPULATION PRACTICE PACKET
AP Environmental Science
Population Growth, Curves & Reproductive Strategies

Growth Curves

The number of individuals in a population can change based on many variables. Density independent factors affect all individuals in a population the same and may include physical factors such as climate, weather or salinity or catastrophic events such as floods, fires or drought. Density dependent factors are more effective with a high-density population and include food supply, disease, parasitism, competition and predation.

1. In cooler climates, aphids (plant lice) go through a huge population increase during the summer months. In the fall, their numbers decline sharply. Identify one density dependent and one density independent factor that regulates this seasonal fluctuation.

Populations show two types of growth, exponential and logistic.

With exponential growth, a population increases by a fixed percent and its resulting graph is the classic "J-shaped" curve. Exponential growth occurs in nature with a small population and ideal conditions; however, it cannot be sustained indefinitely.

With logistic growth, due to of environmental resistance, population growth decreases as density reaches carrying capacity. Carrying capacity (K) is the maximum number of individuals a habitat can support over a given period of time due to environmental resistance. The graph of individuals vs. time yields a S-curved growth curve. The maximum rate at which a population can increase is its biotic potential. The biotic potential of a species is influenced by the age at which reproduction begins, the time the species remains reproductive, and the number of offspring produced during each period of reproduction.

Complete the following table for the two types of growth curves:

growth curve	shows unlimited, unchecked growth	growth limited by extrinsic or intrinsic factors	shape of curve (S or J)	shows carrying capacity for a population	typical of short term or long term growth
2. exponential					
3. logistic					

For each of the following scenarios circle whether the population growth would best be represented by a logistic or exponential growth curve.

4. a strep bacterium invades your throat and reproduces for 4 hours
exponential or logistic
5. the flea population on a rat is monitored for 5 weeks with flea powder added
exponential or logistic
6. loggerhead turtle populations are tracked for 5 years in the Atlantic
exponential or logistic
7. a lucky yeast cell falls into your glass of grape juice and reproduces for 10 hours
exponential or logistic
8. bull frog population in a local pond is monitored for 3 seasons
exponential or logistic

Population Growth Packet Answers

Camilla Rothe



Population Growth Packet Answers:

Resources in Education ,1994 **Zero Population Growth National Reporter** ,1973 ENC Focus ,2001
Equilibrium ,1974 *Bringing Reading Research to Life* Margaret G. McKeown,Linda Kucan,2009-11-30 This book brings together some of the world s foremost literacy scholars to discuss how research influences what teachers actually do in the classroom Chapters describe the current state of knowledge about such key topics as decoding vocabulary comprehension digital literacies reading disabilities and reading reform At the same time the authors offer a unique inside view of their own research careers key personal and professional influences how their research agendas took shape and what they see as the most important questions currently facing the field The book honors the contributions of Isabel Beck who has achieved tremendous success in translating research into widely used instructional practices **Becoming Literate in Mathematics and Science** ,2001 **Info** ,1993 **The Morning After** Heather Munro Prescott,2011-09-15 Since 2006 when the morning after pill Plan B was first sold over the counter sales of emergency contraceptives have soared becoming an 80 million industry in the United States and throughout the Western world But emergency contraception is nothing new It has a long and often contentious history as the subject of clashes not only between medical researchers and religious groups but also between different factions of feminist health advocates The Morning After tells the story of emergency contraception in America from the 1960s to the present day and more importantly it tells the story of the women who have used it Side stepping simplistic readings of these women as either radical feminist trailblazers or guinea pigs for the pharmaceutical industry medical historian Heather Munro Prescott offers a portrait of how ordinary women participated in the development and popularization of emergency contraception bringing a groundbreaking technology into the mainstream with the potential to alter radically reproductive health practices **Proceedings RMRS.** ,1998 AP Computer Science Principles Premium, 2025: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice Seth Reichelson,2024-07-02 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Computer Science Principles Premium 2025 includes in depth content review and online practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 3 in the book including a diagnostic test to target your studying and 3 more online plus detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all Big Ideas on the AP Computer Science Principles Exam Reinforce your learning with practice questions at the end of each chapter that cover all frequently tested topics Prepare for the AP Computer Science Principles Create Performance Task with 6 full sample Create Performance Tasks with complete written reports and requirements for scoring Robust Online Practice Continue your

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