

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

Jessica J Manson

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the author's name.

Population Growth Packet Answers:

Resources in Education ,1994 **ENC Focus** ,2001 **Zero Population Growth National Reporter** ,1973
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 Federal Register ,1999-04-06 Exploring Environmental Issues Barbara Branca,1994 Twenty activities with teaching strategies and additional resources that illustrate the changes produced in the environment due to human activity **Proceedings RMRS.** ,1998 **AP Computer Science Principles Premium, 2024: 6 Practice Tests + Comprehensive Review + Online Practice** Seth Reichelson,2023-07-04 Trusted content from AP experts Barron's AP Computer Science Principles Premium 2024 includes in depth content review and online practice It's the only book you'll need to be prepared for exam day *Educators Guide to Free Social Studies Materials* ,1993 Energy Abstracts for Policy Analysis ,1978 *The Lancet* ,1920 **Catalogus librorum in Bibliotheca Universitatis Andreanae, secundum literarum ordinem dispositus** University of St. Andrews. Library,1826 *Popular Science* ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Integrated Pest Management** Dharam P. Abrol,Uma Shankar,2012 Providing a critical evaluation of the management strategies involved in ecologically based pest management this book presents a

balanced overview of environmentally safe and ecologically sound approaches Topics covered include biological control with fungi and viruses conservation of natural predators use of botanicals and how effective pest management can help promote food security In the broader context of agriculture sustainability and environmental protection the book provides a multidisciplinary and multinational perspective on integrated pest management useful to researchers in e **Free and Inexpensive Learning Materials** ,1976 **India's National Security** Satish Kumar,2016-10-04 This fifteenth volume of India s National Security Annual Review undertakes an incisive analysis of India s endeavours to maximise its gains with respect to its strategic partners The volume also focuses on the new dynamism that India has injected in its relations with countries in the Middle East and the Asia Pacific India s threat perceptions in its extended security zone critical aspects of its strategic preparedness and complex issues regarding its internal security have been thoroughly examined

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