

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

Rosina Ehmann



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Resources in Education ,1994-04 **ENC Focus** ,2001 **Equilibrium** ,1974 **Zero Population Growth National Reporter** ,1973 *Becoming Literate in Mathematics and Science* ,2001 **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 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 **Internet Freedom Act and Internet Growth and Development Act of 1999** United States. Congress. House. Committee on the Judiciary,2000 *Proceedings RMRS.* ,1998 **Southeast High Speed Rail -- Washington, DC to Charlotte, NC, Tier I** ,2001 **Federal Register** ,1999-04-06 **Community Medicine: Prep Manual for Undergraduates, 2nd edition-Ebook** Rajvir Bhalwar,2018-04-14 This book fulfills the unmet need of quick review question answer book and at the same time cover the entire syllabus of Community Medicine spread over 30 chapters Each chapter has 1 or 2 solved long questions 8 to 10 solved short notes viva voce and MCQs related to that chapter These long short questions cover the complete syllabus laid down for that chapter by Medical Council of India reputed medical universities thus giving the student adequate and complete knowledge of the subject besides enabling them to effectively undertake a quick comprehensive exam preparation The answers to long questions short notes are crisp though at the same time containing all essential details In this new edition digital assets and MCQs are also included **Energy Abstracts for Policy Analysis** ,1978 **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

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web laboratory no 6 frog virtual dissection introduction frogs belong to the class amphibia amphibians have adaptations for living in terrestrial as well as aquatic environments frogs are among the most commonly studied organisms in biology although many differences exist between humans and frogs the basic body plans are similar

dissection 101 frog - Jan 31 2023

web frog dissection quiz complete the following questions 1 name the structure indicated liver 2 what is a function of this structure detoxifying blood storing of fats for name another frog structure that has a similar function mouth or skin 15 name the structure indicated stomach dissection 101 frog

lab frog dissection introduction astephensscience - Sep 26 2022

web in this investigation you will observe the external features of a preserved frog and identify parts of its external anatomy

you will also dissect the preserved frog to observe its internal anatomy and make comparisons to human anatomy pre lab questions read the entire investigation then answer the following questions 1

frog dissection anatomy pretest answer key 2015eeglobalsip - Feb 17 2022

web apr 1 2023 to download and install the frog dissection anatomy pretest answer key it is unconditionally easy then in the past currently we extend the link to buy and create bargains to download and install frog

external anatomy central bucks school district - May 23 2022

web 1 place the frog in the dissecting pan ventral side up examine the hind and forelegs the hind legs are strong and muscular for jumping and swimming the forelegs provide balance and cushion the frog when it lands after jumping notice the toes on each 2 locate the large bulging eyes the frog has 3 eyelids

frog dissection external and internal the biology corner - Mar 01 2023

web complete student instructions for the dissection of the frog starting with the external anatomy and the anatomy of the mouth student guide requires them to label images and answer questions students continue with the internal anatomy where they open the abdominal cavity to reveal the major organs

frog dissection gizmo abbreviated 2021 studocu - Nov 28 2022

web in the frog dissection gizmo you will complete a virtual dissection of a female and male frog first select the female frog then click on the rotate button with the rotate button selected click and drag on the frog to rotate it observe what the female frog looks like now select show male at the bottom left to switch to the male frog

frog dissection virtual activity key by biologycorner tpt - Jun 23 2022

web description standards 1 reviews 3 q a 1 more from biologycorner description this activity was created as a virtual version of the frog dissection students use slides with descriptions and images to learn about the organ systems of the frog

frog dissection lab and answer sheet syndaver - May 03 2023

web and answer questions in italics during the lab and answer all others later part a introduction 1 what class does the frog belong to 2 why does a frog belong to that class 3 why are amphibians considered to be a unique evolutionary group part b external anatomy orientation 4 locate the following orientations on your frog a