

# Laboratory: Human Population Growth

Mrs. Côté

Answer Key

Enviro. Science 120

## Pre Lab Work:

Before beginning this laboratory, answer the following questions on your own piece of paper in your notebook:

- Define the following terms:
  - growth rate – describes how fast a population is increasing or decreasing and is dependent upon the birth rate and death rate
  - birthrate – is the number of infants born in a given year/1000 people in the population
  - death rate – is the number of people who die in a given year/1000 individuals in the population
  - zero population growth – when the population is in equilibrium or the number of births and deaths are equal
  - developed country – countries that highly developed economy and advanced technology
  - developing country – countries that are considered to have low standard of living, and undeveloped industrially
  - demographic transition – refers to the transition from high birth and death rates to low birth and death rates
- What is a population explosion? How quickly is our population growing each year? What about each day?  
A population explosion is when a population lacks limited resources so is able to grow out of control. The human population is grows about 80 million a year and 219, 178 each day.
- How is the growth rate of the human population calculated?  
 $\text{Growth rate} = \text{birth rate} - \text{death rate}$
- What causes a negative population growth? What causes a positive population growth?  
Negative population growth occurs when the birth rate is less than the death rate  
Positive population growth occurs when the birth rate exceeds the death rate
- Why do the two graphs appear to have a different shape?  
The population growth rate was much slower in the earlier years. The J-curve shows exponential population growth and the graphs are not drawn to the same scale.
- Using a piece of paper, create the following charts:

Country	Birthrate (%)	Death rate (%)	Population Growth 2005	Population Growth 2050	Demographic Transition	Relative Place in Transition	Sketch graph showing Blue & Pink Line
USA	2.06	0.51	0.92	-0.06	1.55	5	

# Population Growth Lab Answers In Biology

**Emilie Sanchez**



## **Population Growth Lab Answers In Biology:**

**E-biology Ii (science and Technology)' 2003 Ed. ,      Collected Papers from the Institute for Biological Research of the Johns Hopkins University ,1928      Biological Investigations Lab Manual Warren Dolphin,David Vleck,Linda Westgate,James Colbert,2010-01-27** The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology      *EPA Publications Bibliography* United States. Environmental Protection Agency,1985      **Selected Water Resources Abstracts ,1987      Princeton Review AP Environmental Science Premium Prep, 20th Edition** The Princeton Review,2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 Ace the newly digital AP Environmental Science Exam with this comprehensive study guide including 4 full length practice tests with answer explanations timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Targeted review of commonly tested concepts for the AP Environmental Science Exam Detailed figures graphs and charts to illustrate important world environmental phenomena Online digital flashcards to review core content plus study plans and more via youronline Student Tools Premium Practice for AP Excellence 4 full length practice tests 3 in the book 1 online with detailed answer explanations and scoring worksheets Online tests provided as both digital versions with timer option to simulate examexperience online and as downloadable PDFs with interactive elements mimicking theexam interface Practice drills at the end of each content review chapter plus step by step walk throughs of sample exam questions Quick study glossary of the terms you should know      *EPA Publications Bibliography Quarterly Abstract Bulletin* United States. Environmental Protection Agency,1994-10      **Current Catalog** National Library of Medicine (U.S.),1970 Includes subject section name section and 1968 1970 technical reports      **Report summaries** United States. Environmental Protection Agency,1983

**Resources in Education** ,1996      **Research in Education** ,1968-07      Biological Abstracts Jacob Richard Schramm,1927      **EPA Publications Bibliography** ,1990      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1968      **U.S. Government Research & Development Reports** ,1970      **Energy Research Abstracts** ,1990      **In Situ Evaluation of Biological Hazards of Environmental Pollutants** Shabeg S. Sandhu,William R. Lower,Frederick J. de Serres,William A. Suk,Raymond R. Tice,2013-03-08 The study of the relationship between environmental pollution and human health is in its infancy The number of substances and mixtures that have been identified in uncontrolled hazardous waste sites or that have been inadvertently released into the environment is large and data on how these substances are modified as they interact with one another as they migrate through soil air and water are limited There are also limits on our understanding of how these substances may be ingested inhaled or absorbed by people The complexity of possible interactions between biological chemical and physical components in a given environment makes it virtually impossible to evaluate the potential for adverse biological effects adequately in the laboratory Other more comprehensive methods which provide realistic and interpretable results must be used Many scientists believe that humans represent the ultimate sentinel species of a toxic exposure resulting from environmental pollution however such exposures may also severely impact environmental health There exists a wide variety of organisms in the natural environment that could be used to provide an early warning for potential human health effects as well as to indicate adverse ecological effects The issue of effective utilization of sentinel species for environmental monitoring is a rapidly developing area of research which has grown in importance during the last decade      **NOAA Technical Report NMFS.** ,1984      **Holt Biology** Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008      **Report of the Bureau of Commercial Fisheries Biological Station, St. Petersburg Beach, Florida** United States. Bureau of Commercial Fisheries. Biological Station, St. Petersburg Beach, Fla,1966

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