

# 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 Biology Lab Answers

**Arturo Cuomo**



## Population Growth Biology Lab Answers:

The Biology of Population Growth Raymond Pearl, 1925      **CliffsAP Biology, 3rd Edition** Phillip E Pack, 2011-11-08  
Your complete guide to a higher score on the AP Biology exam Included in book A review of the AP exam format and scoring proven strategies for answering multiple choice questions and hints for tackling the essay questions A list of 14 specific must know principles are covered Includes sample questions and answers for each subject Laboratory Review includes a focused review of all 12 AP laboratory exercises AP Biology Practice Tests features 2 full length practice tests that simulate the actual test along with answers and complete explanations AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product      **Report of the Bureau of Commercial Fisheries Biological Laboratory, Galveston, Texas, Fiscal Year 1966** United States. Bureau of Commercial Fisheries. Biological Laboratory (Galveston, Tex.), 1967      **Report of the Bureau of Commercial Fisheries Biological Laboratory, Gulf Breeze, Florida, Fiscal Year 1966** Biological Laboratory (Gulf Breeze, Fla.), 1967      *U.S. Government Research & Development Reports*, 1970      **Human Biology Laboratory Manual** Charles J. Welsh, 2006 A perfect accompaniment to any Human Biology course Charles Welsh s Human Biology Laboratory Manual boasts 18 lab exercises aimed at educating students on how the human body works Labs within the manual may be taught in any order offering instructors the flexibility to cater the text to their own needs and course lengths      Resources in Education, 1996      **Annual Report of the Biological Laboratory** Biological Laboratory (Cold Spring Harbor, N.Y.), 1929      Collected Papers from the Department of Biology of the School of Hygiene and Public Health of the Johns Hopkins University Johns Hopkins University. School of Hygiene and Public Health. Department of Biology, 1928 Chiefly reprints from various scientific journals      The Booklist Books, 1926  
Contains general literature fiction children s books technical books      **Booklist Books, a Selection** American Library Association, 1922      **Among Our Books** Carnegie Library of Pittsburgh, 1927      **Biology Laboratory Manual** Darrell S. Vodopich, Randy Moore, 1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available      **Easy Guide to Key Concepts in Integrated Algebra I** Joseph Pousada, 2013-09-01 The goal of this book is to bring key concepts in this subject to you in an easy to understand manner with detailed examples that show you how things are done      **The Booklist**, 1926      Booklist, 1926      Christian Home Educators' Curriculum Manual Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home      The UFAW Handbook

on the Care and Management of Laboratory and Other Research Animals Huw Golledge, Claire Richardson, 2024-05-07 The latest edition of the seminal reference on the care and management of laboratory and research animals The newly revised ninth edition of The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals delivers an up to date and authoritative exploration on worldwide developments current thinking and best practices in the field of laboratory animal welfare science and technology The gold standard in laboratory and captive animal care and management references this latest edition continues the series tradition of excellence by including brand new chapters on ethical review the care of aged animals and fresh guidance on the care of mole rats corvids zebrafish and decapods The book offers introductory chapters covering a variety of areas of laboratory animal use as well as chapters on the management and care of over 30 different taxa of animals commonly utilised in scientific procedures and research around the world It also provides A thorough introduction to the design of animal experiments laboratory animal genetics and the phenotyping of genetically modified mice Comprehensive explorations of animal welfare assessment and the ethical review process Practical discussions of legislation and oversight of the conduct of research using animals from a global perspective In depth examinations of the planning design and construction of efficient animal facilities special housing arrangements and nutrition feeding and animal welfare The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Ninth Edition is essential for laboratory animal scientists veterinarians animal care staff animal care regulatory authorities legislators and professionals working in animal welfare non governmental organizations      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1974 First multi year cumulation covers six years 1965 70      *Monthly Catalog of United States Government Publications* , 1993

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