

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

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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

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Table of Contents Population Growth Lab Answers In Biology

1. Understanding the eBook Population Growth Lab Answers In Biology
 - The Rise of Digital Reading Population Growth Lab Answers In Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Population Growth Lab Answers In Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Population Growth Lab Answers In Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Population Growth Lab Answers In Biology
 - Personalized Recommendations
 - Population Growth Lab Answers In Biology User Reviews and Ratings
 - Population Growth Lab Answers In Biology and Bestseller Lists
5. Accessing Population Growth Lab Answers In Biology Free and Paid eBooks
 - Population Growth Lab Answers In Biology Public Domain eBooks
 - Population Growth Lab Answers In Biology eBook Subscription Services
 - Population Growth Lab Answers In Biology Budget-Friendly Options

6. Navigating Population Growth Lab Answers In Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Population Growth Lab Answers In Biology Compatibility with Devices
 - Population Growth Lab Answers In Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Population Growth Lab Answers In Biology
 - Highlighting and Note-Taking Population Growth Lab Answers In Biology
 - Interactive Elements Population Growth Lab Answers In Biology
8. Staying Engaged with Population Growth Lab Answers In Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Population Growth Lab Answers In Biology
9. Balancing eBooks and Physical Books Population Growth Lab Answers In Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Population Growth Lab Answers In Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Population Growth Lab Answers In Biology
 - Setting Reading Goals Population Growth Lab Answers In Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Population Growth Lab Answers In Biology
 - Fact-Checking eBook Content of Population Growth Lab Answers In Biology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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