

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

Raffaela Di Napoli



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Table of Contents Population Growth Lab Answers

1. Understanding the eBook Population Growth Lab Answers
 - The Rise of Digital Reading Population Growth Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Population Growth Lab Answers
 - 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
 - User-Friendly Interface
4. Exploring eBook Recommendations from Population Growth Lab Answers
 - Personalized Recommendations
 - Population Growth Lab Answers User Reviews and Ratings
 - Population Growth Lab Answers and Bestseller Lists

5. Accessing Population Growth Lab Answers Free and Paid eBooks
 - Population Growth Lab Answers Public Domain eBooks
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 - Population Growth Lab Answers Budget-Friendly Options
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 - Population Growth Lab Answers Compatibility with Devices
 - Population Growth Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Population Growth Lab Answers
 - Highlighting and Note-Taking Population Growth Lab Answers
 - Interactive Elements Population Growth Lab Answers
8. Staying Engaged with Population Growth Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Population Growth Lab Answers
9. Balancing eBooks and Physical Books Population Growth Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Population Growth Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Population Growth Lab Answers
 - Setting Reading Goals Population Growth Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Population Growth Lab Answers
 - Fact-Checking eBook Content of Population Growth Lab Answers
 - 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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