



Population Dynamics

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Student Worksheet

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INTRODUCTION

In the [Population Dynamics](#) Click & Learn, you'll explore a powerful tool for learning about populations: mathematical models. As you'll see by doing the Click & Learn and this activity, you can use models to answer questions, solve problems, and make predictions about all kinds of populations — from bacteria in your body, to wildlife across the world, to our own human populations.

PART 1: Introduction to Population Dynamics

Open the [Population Dynamics](#) Click & Learn and read through the introduction on the first page.

1. Describe a specific question or problem related to population dynamics that interests you.

I would be curious about the growth and sustainability of the human population in the long term.

2. Do you think the question or problem you described could be investigated using a mathematical population model? Why or why not?

We could likely use the demographic transition model as it measures birth and death rates along with carrying capacity.

PART 2: Exploring the Exponential Growth Model

Open the "Exponential growth model" tab and read the "Introduction" section.

3. The end of the "Introduction" describes how you could use a continuous-time, exponential growth model to simulate an *E. coli* population growing in a lab. Describe another specific population and situation that you could simulate with this type of model.

Other bacteria, populations in recovery from a disaster, or populations in ideal conditions for reproduction.

4. Complete the following table to explain the *biological* meanings of the symbols in the exponential growth model. For each explanation, give a specific example using the population you described above.

| Symbol | Biological Meaning | Specific Example |
|---------|--|---|
| N | The number in the population | how many bacteria are in the population |
| t | Time we are using as a measure | 1 day |
| dN/dt | The change in population size over the change in reproduction time | In one day, there was an increase from x bacteria to y bacteria |
| r | Rate of reproduction | 1.1 bacteria per minute. |
| N_0 | Initial population | There were initially z bacteria |

5. Both dN/dt and r are types of growth rates. What are the differences between them?

While the first represents population growth rates as a whole, r is based more in birth/death rates per

Population Dynamics Answer Key

Dennis L. Murray, Brett K. Sandercock



Population Dynamics Answer Key:

Adopting the Melody of Term: An Psychological Symphony within **Population Dynamics Answer Key**

In a world eaten by monitors and the ceaseless chatter of instantaneous communication, the melodic elegance and psychological symphony produced by the prepared term usually fade into the back ground, eclipsed by the persistent sound and disturbances that permeate our lives. However, situated within the pages of **Population Dynamics Answer Key** an enchanting fictional treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this fascinating masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden tunes and profound affect resonating within each cautiously constructed phrase. Within the depths with this poignant assessment, we can investigate the book is main harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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