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#### INTRODUCTION

In the <u>Population Dynamics</u> 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.

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.

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.

 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.

 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                         |
| E       | Time we are using as a measure  | 1 day   |
| d'M//dt | The change in population size over the change<br>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.  |
| No      | Initial population  | There were initially a bacteria                                 |

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

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## **A Gutmann**

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