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Investigation 1: Exponential Growth  
Investigation 2: Logistic Growth  
Investigation 3: Logistic Growth of an Elephant Population

### Investigation 1: Exponential Growth of Zebra Mussels



Here's what you'll do to answer this question:

- In the space below, sketch the population graphs that illustrate the experts' predictions about the population.

Expert 1	Expert 2	Expert 3
Type of growth:	Type of growth:	Type of growth:

After you have sketched each graph, be sure to click "Next" after the last expert's prediction to move on to collect data. You will need to collect both qualitative and quantitative data.

# Population Dynamics Gizmo Worksheet

**Self-Instructional Materials Project**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Self-Instructional Materials Project' text.

## **Population Dynamics Gizmo Worksheet:**

*Resources in Education*, 1998      **Population Dynamics** Maurice E. Solomon, 1971      **Population Dynamics** Bertram G. Jr. Murray, 2013-07-22

Population Dynamics Alternative Models provides a theoretical framework of population dynamics. This book contains seven chapters that discuss the controversies surrounding discussions on the explicit view of the subject. Chapters 1 and 2 present a general introduction to the terminology, the mathematical background, and the philosophical approach that lie behind the theoretical development. Chapter 3 contains a series of models accounting for variations in population growth rates, sizes, and fluctuations, while Chapter 4 examines a model accounting for the evolution of life history patterns. A more detailed examination of the effects of predation on prey populations, especially with respect to determining a prey population's maximum sustainable yield, is explored in Chapter 5. Chapter 6 highlights the interspecific competition theory in terms of the population dynamics models presented in a previous chapter. Chapter 7 summarizes the developments in the population dynamics research studies. This work will be of great value to ecologists, biologists, and population dynamics researchers.

Population Dynamics and the Tribolium Model: Genetics and Demography Robert Costantino, Robert Desharnais, 1991-08

The study of populations is becoming increasingly focused on dynamics. We believe there are two reasons for this trend. The first is the impact of nonlinear dynamics with its exciting ideas and colorful language, bifurcations, domains of attraction, chaos, fractals, strange attractors, complexity, which is so very much a part of biology now seems to be also a part of mathematics. A second trend is the accessibility of the new concepts. The barriers to communication between the theorist and experimentalist seem less impenetrable. The active participation of the experimentalist means that the theory will obtain substance. Our role is the application of the theory of dynamics to the analysis of biological populations. We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers, which was based on an equilibrium model proposed a decade earlier. During the next few months, we filled our notebook with straightforward deductions from the model and its associated biological implications. Slowly, some of the biological observations were explained, and papers followed on a variety of topics: genetic and demographic stability, stationary probability distributions for population size, population growth as a birth-death process, natural selection and density-dependent population growth, genetic disequilibrium, and the stationary stochastic dynamics of adult numbers.

**Population Dynamics in Variable Environments** Shripad Tuljapurkar, 1985      *Population Dynamics: Algebraic and Probabilistic Approach* Utkir A. Rozikov, 2020

The book contains a very popular topic since the number of young scientists interested in dynamical systems is increasing, as there are a multitude of applications in biology, mathematics, medicine, and physics. It is the first ever book published in English on this topic. The book contains results of many recent papers related to population dynamics.

Population Dynamics Self-Instructional Materials Project, 1973      *Population Dynamics* Johannes Phillippus Degenaar, Diederik Arnoldus Scholtz, Andries Marthinus Louis Thomas, South African Association for Teachers of Biology, 1988

*Population Dynamics Program* University of Illinois at Urbana-Champaign. Population Dynamics Group, 1975

**Population Biology** Simon A. Levin, 1984 Contains lecture notes that were presented at the AMS Short Course on Population Biology held August 6-7, 1983 in Albany New York in conjunction with the summer meeting of the American Mathematical Society This title acquaints the reader with the mathematical ideas that pervade various levels of thinking in population biology

**Population Dynamics** Mathematics Research Center. Symposium, Univ. of Wisconsin, 1972, Population, 1972

**Week 2** NatSci 106, **Population dynamics**, 1978 *Patterns of Life Series: Population dynamics*, 1965

**Population Dynamics: a Computerized Simulation for Systematic Policy Analysis** Kenneth Floyd Smith, Massachusetts Institute of Technology. Department of Political Science, 1970 *Modelling Fluctuating Populations* Roger M. Nisbet, W. S. C. Gurney, 1993

**Analytical population dynamics** T. Royama, 1996 *Population dynamics; proceedings* Symposium on Population Dynamics, Mathematics Research Center, 1972, *Population Dynamics* Thomas N. Greville, 1972

Theory of Populations Alexandr N Tetearing, 2016-11-29 The book is devoted to the theory of development of the biological systems The fundamental equation of life of a biological population based on the general physical principles allows us to get all the basic equations of population dynamics describing the development of the populations under various environmental conditions The equations describe the population transition that occurred in our human population in the late 20th century This transition may indicate the fact that the human population consists of two super races the old slow race and new fast growing human race that appeared on Earth relatively recently The separate chapter presents the base classification of predator-prey systems The classification consists of ninety-six different equation systems The book is addressed to a broad auditorium of biologists ecologists and demographers as well as readers interested in the development of the biological populations Translated from Russian

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