### AP Biology

### Population Dynamics: Three Types of Population Growth

Go to the following website: http://ats.doit.wisc.edu/biology/ec/pd/pd.htm

You will investigate three different scenarios of population growth:

Investigation 1: Exponential Growth

Investigation 2: Logistic Growth

Investigation 3: Logistic Growth of an Bephant Population

For each investigation, you will complete data charts and a few short questions. This assignment will count as a lab grade, so be sure to do your very best work.

### Investigation 1: Exponential Growth of Zebra Mussels

In this investigation, you are a Department of Natural Resources aquatic biologist assigned to study the ecology of Lake Madonna, a small lake in south central Wisconsin. Recently, a single adult zebra mussel was found in Lake Madonna. Otizens, government officials, and scientists are concerned about a large scale invasion of the lake by this pest.

It's up to you to answer the question: What will the zebra mussel population look like in 5 years?



Name:

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

- Find out what the experts predict will happen about the zebra mussel population.
- 2. Collect data about the population for a period of 5 years.
- Process the data and compare it with the models the experts propose.

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

Expert 1	Expert 2	Expert 3
	-0.0775	
ype 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 Three Types Of Population Growth Answer Key**

**Michael Brown** 

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