

## Population Dynamics Lab Report

*Instructions: As you complete each slide of the Population Dynamics Virtual Lab Activity, please fill in this lab report with the appropriate information and data.*

Title: *Population Dynamics*

Objective(s): *Analyze graphs to determine the population size of two marine species, explain how predation, birth, and death rates impact marine populations, describe how biotic and abiotic factors influence marine populations.*

Variables: *Prey Initial Size: The starting number of prey. (Assume that the seals have an unlimited amount of food.)*

*Prey Growth Rate: The birth rate of the prey. The larger the growth rate, the faster the prey population will increase.*

*Predator Initial Size: The starting number of predators.*

*Predator Death Rate: The death rate of the predators. A larger death rate means predators will die out quicker.*

*Capture Efficiency: This number represents the ability of the predator to capture the prey over some time interval. A larger value for this parameter means that the predators have a better chance of capturing prey.*

Hypotheses: *Prediction 1: If the starting population of the prey is higher than the predators, the resulting population of the seals will be lower than the population of the whales.*

*Prediction 2: If the starting population of the predators is higher than the prey, the resulting population of the whales will be higher than the population of the seals.*

*Prediction 3: If the prey growth rate increases, the resulting population of the seals will be lower than the population of the whales. (Both starting populations set to 25.)*

*Prediction 4: : If the death rate of the whales increases, the resulting population of the seals will be higher than the population of the whales. (Both starting populations set to 25.)*

Materials:

1. The Population Dynamics Virtual Lab Activity
2. Population Dynamics Lab Report

Procedures:

The procedures are listed in Population Dynamics Virtual Lab Activity. You do not need to include them here.

Data and Observations

Table 1: Predation and Carrying Capacity

	Starting Seal Population	Starting Whale Population	Highest Seal Population	Highest Whale Population
Trial				

# Dynamics Lab Manuals

**G Orfield**



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