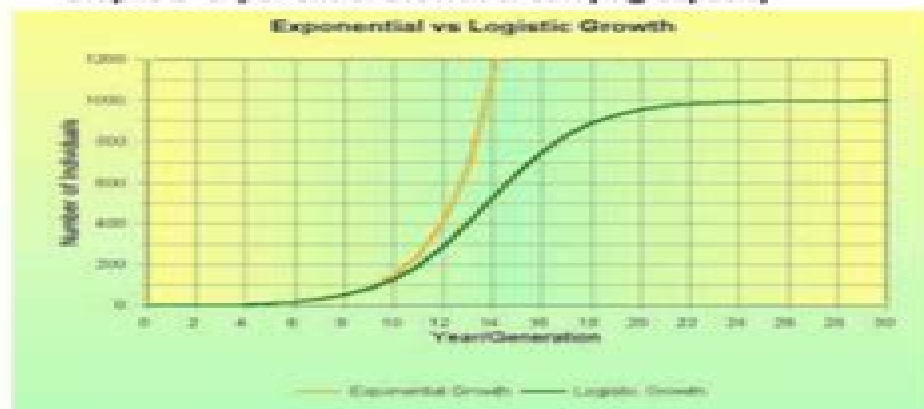


Directions: Look at the graphs below and answer the following questions.

## Population Ecology Graph Worksheet

### Graphs 1- Exponential Growth & Carrying Capacity

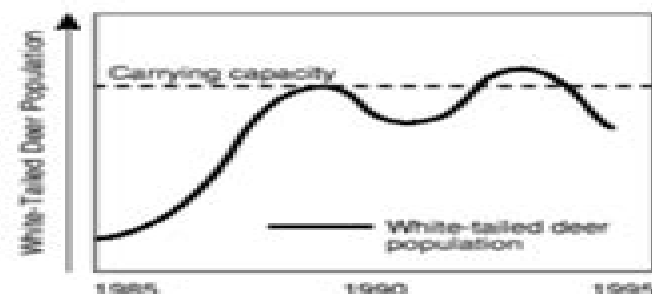


1. Which of the two curves exhibits exponential growth?
2. Which of the two curves exhibits a carrying capacity?
3. What is a carrying capacity of a population?
4. What is the carrying capacity of this graph?
5. In what generation does this population reach its carrying capacity?

6. What is the difference between a carrying capacity graph & an exponential growth curve?

### Graph 2 – Carrying Capacity

1. For what type of organism is the carrying capacity shown?
2. In what year did this population first reach carrying capacity?
3. Give one reason why the population decreased in 1990 after it had reached its carrying capacity.
4. Give one hypothesis to explain why the population exceeded its carrying capacity in 1992.
5. Why did the population decrease in 1994 after it exceeded the carrying capacity?

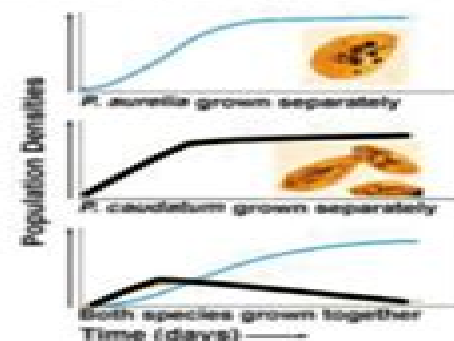


### Graph 3- Competition Curve

Graph 3 shows the growth of 2 species of bacteria grown on the same petri dish. It also shows their growth rate when grown separately.

1. Which of the 2 types of bacteria will soon die? Why?
2. Which of the 2 bacteria strains is better adapted for competition?
3. How is the growth rate for *P. caudatum* different when it is grown alone?

### Competition Between Two Laboratory Populations of *Paramecium*



# Biology Guide Biology Junction Answers Population Ecology

**Dick Neal**



## **Biology Guide Biology Junction Answers Population Ecology:**

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processes The Southern Rockies Wildlands Network Vision is a conservation blueprint and collaborative effort of the Southern Rockies Ecosystem Project the Denver Zoo and the Wildlands Project for the Southern Rockies of Colorado Wyoming and New Mexico      **Forthcoming Books** Rose Arny,2000      Population Biology Alan Hastings,1996-12-13 Population biology has been investigated quantitatively for many decades resulting in a rich body of scientific literature Ecologists often avoid this literature put off by its apparently formidable mathematics This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations The author only assumes acquaintance with elementary calculus and provides tutorial explanations where needed to develop mathematical concepts Examples problems extensive marginal notes and numerous graphs enhance the book s value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology The book will also be useful as a supplement to introductory courses in ecology      **Books in Print** ,1977      **American Book Publishing Record** ,1999      **Bibliography of Agriculture** ,1998  
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