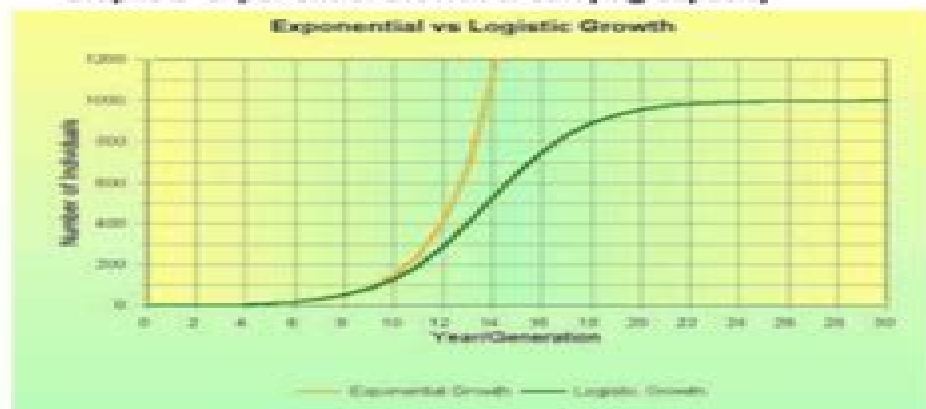


Directions: Look at the graphs below and answer the following questions.

Population Ecology Graph Worksheet

Graphs 1- Exponential Growth & Carrying Capacity

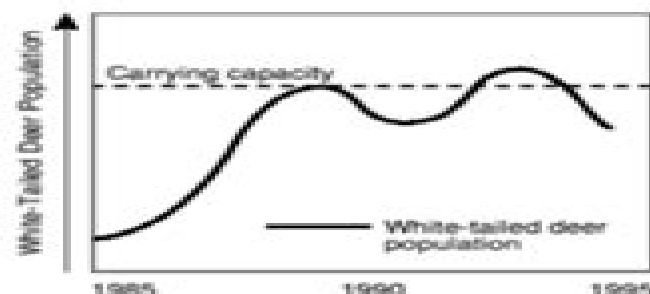


1. Which of the two curves exhibits exponential growth?
2. Which of the two curves exhibits a carrying capacity?
3. What is a carrying capacity of a population?
4. What is the carrying capacity of this graph?
5. In what generation does this population reach its carrying capacity?

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?

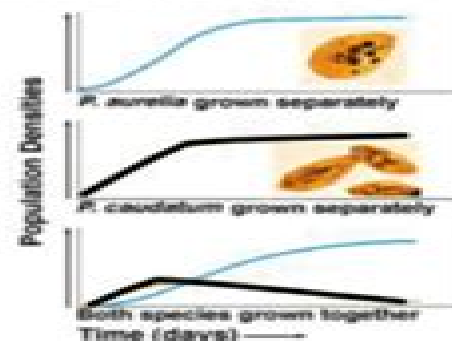


Graph 3- Competition Curve

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*



Population Ecology Graph Answer Key

Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Mark Steyvers.

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