(Class set)

POPUATION TRENDS (CHAPTER 14)

1. Make a graph using the data in each data table. One graph will show the growth rate of a fruit fly population. The other graph will show the growth rate of a population of rabbits.

FRUIT FLY POPULATION GROWTH	
DAYS	NUMBER OF FRUIT FLIES
5	10
10	50
15	100
20	200
25	300
30	310
35	320
40	320

RABBIT POPULATION GROWTH	
GENERATIONS	# OF RABBITS
1	100
2	105
25	1000
37	1600
55	2400
72	3350
86	8000
100	13,150

2. What type of growth pattern is exhibited by the fruit fly population? Is it the same type of growth as in the rabbit population?
3. Does either graph indicate that there is a carrying capacity for the population? If so, when does the population reach its carrying capacity? What is the maximum number of individuals that can be supported at that time?
4. Animals such as foxes and cats often prey on rabbits. Based on the growth curve of the rabbit population, what might have happened if a group of predators moved into the rabbits' habitat during the tenth generation and began eating the rabbits?