

Name: _____

Date: _____

Science 10: Oh Deer! Population Ecology

Learning Objectives

1. I can identify limiting factors to a population and explain how they affect the population size.
2. I can identify the carrying capacity of a population

Data

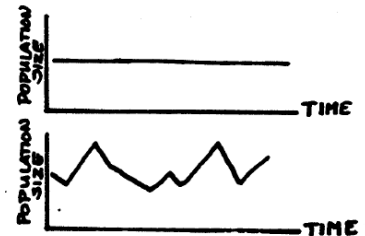
Year	Game 1		Game 2		Game 3	
	Number of Deer	Notables	Number of Deer	Notables	Number of Deer	Notables
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Questions

1. List three things that, in general, animals need to survive. (1 marks)

2. List three limiting factors that affect survival rates of a species. (3 marks)

3. We often talk about the "balance" of nature. Is nature ever really in balance? Explain your answer, referencing the image to the right. (3 marks)



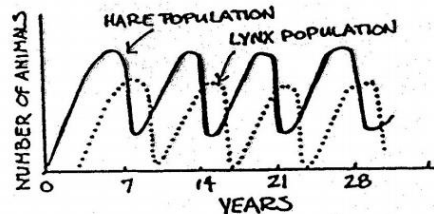
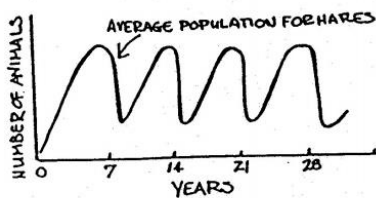
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4. Make a graph of the data from the game, showing deer population (y-axis) over time (x-axis). **Make each game a different line colour.** (8 marks)



5. Explain what happens to the deer population over time in each game. Include the value of the carrying capacity in your answer. Identify how notable events affect the deer population. (6 marks)



6. Using the images above, which animal is the predator? Which is the prey? Are the predators controlling the prey or the prey controlling the predators? Explain your answer. (4 marks)