

An active-learning lesson that targets student understanding of population growth in ecology

- Supporting File 6.

CQ5. If $r=2$ per day per individual and $K= 80$ barnacles per cm^2 , how does increasing the population size (N) affect the population growth rate (dN/dt) in the logistic model?

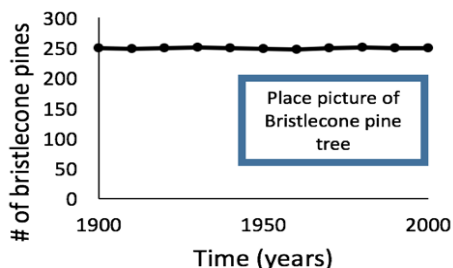
Population Size (N) (barnacles per cm^2)	dN/dt
1	
20	
40	
60	
70	
80	

$$\frac{dN}{dt} = rN \left(1 - \frac{N}{K} \right)$$

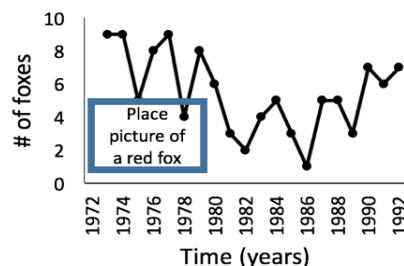
In your own words, summarize how increasing the population size (N) affects the population growth rate (dN/dt):

TPSQ4. Use the spaces provided to describe the following populations.

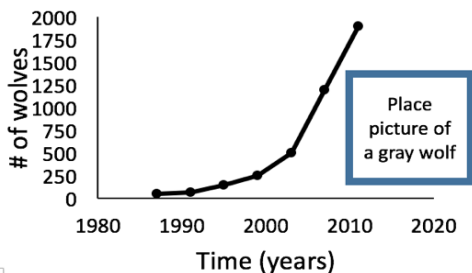
1. Identify if density or abundance is shown.
2. Describe what is happening to the population (increasing, decreasing, etc.).
3. Identify if the growth curve most closely resembles linear, exponential, logistic, or other.



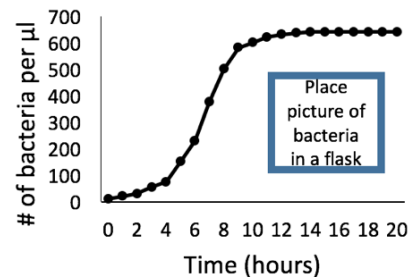
- 1.
- 2.
- 3.



- 1.
- 2.
- 3.



- 1.
- 2.
- 3.



- 1.
- 2.
- 3.