

# **Population Growth**

### How fast do populations grow?

http://bit.ly/2rOrG2v

1.	When exponential growth is graphed, to letter of the alphabet?	he trend line created looks like what	
2.	Which has a greater biotic potential- humans or mice? Why?		
3.	What is carrying capacity?		
4.	What are the two types of limiting factors and how do they differ?		
5.	When limiting factors exhibit pressure of growth graph?	on a population, what happens to the	
6.	Match the following terms to the correct	atch the following terms to the correct description.	
	natality	a. death rate	
	fecundity	b. predicted length of survival	
	fertility	c. ability to reproduce	
	mortality	d. birth of new individuals	
	life expectancy	e. number of offspring	
7.	Which type of survivorship curve would elephants? A population of frogs?	be represented by a population of	

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### Why are limiting factors important?

https://authoring.concord.org/activities/1013/single\_page/eb82da3f-745c-4c99-a129-5fcb839f2387

8. Run the sheep simulation a few times with various conditions. Adjust some of the variables including "reaping", amount of grass, and birthrate to see if you can make a more stable population. What is the highest carrying capacity of sheep possible? What conditions are required to allow this carrying capacity?

9. Take a snapshot of your simulation and paste it below or explain it. Describe the image including analysis of limiting factors and growth/carrying capacity.

#### What can we learn from a population pyramid?

https://www.youtube.com/watch?v=RLmKfXwWQtE

- 10. A population can be divided into three important categories on a population pyramid. What are these three categories?
- 11. If a population pyramid is shaped like a true pyramid, what can we determine about that population's growth?