

Ecology Test Review-Part 1

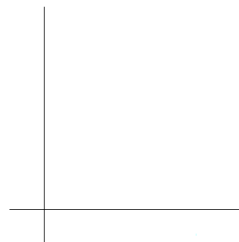
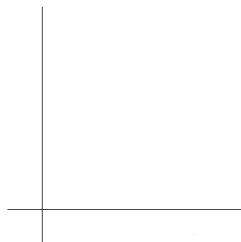
Name: _____
Date _____ Period ____

Study your vocabulary

1. Describe the differences between the following trophic levels. Include an example of each.

Trophic Level	Description	Example
<i>primary producer</i>		
<i>primary consumer</i>		
<i>secondary consumer</i>		
<i>top predator</i>		
<i>decomposer</i>		

2. What is the difference between an autotroph and a heterotroph? (See “Food Web” Packet).
3. How do animals obtain the nitrogen they need? (Hint: Look back at your Matter/Energy Packet)
4. What is climate change? Discuss how fossil fuels are contributing to this. (Hint: Look back at your Matter/Energy Packet)
5. Compare and contrast abiotic factors with biotic factors. What are some examples of each? (See “Food Web” Packet).
6. a) What is the difference between an exponential growth curve and a logistic growth curve? Draw a graph showing each of the curves. (See “Interaction Packet”)



b) Define carrying capacity: (See “Interaction Packet”)

c) What are 3 things that can decrease the carrying capacity of a habitat?

7. *Explain the ecological significance of interdependence (organisms interacting with one another).
(See “Interaction Packet”)

8. *Describe how small amounts of toxins can drastically affect an ecosystem (Biomagnification).
HINT: Use the activity from class with the phytoplankton, daphnia, herring, salmon, and orca.
(See “Food Web Packet”)

9. **List** and **define** the four factors that determine a population.

10. a) Describe the difference between **density-dependent factors** and **density-independent factors**. Include two examples of each. (See population POGIL)

b) What types of populations are most affected by density-dependent factors?