MiSP Predator/Prey Unit Assessment L3

MiSP Predator Prey Assessment

Name ______________________________                    Date_____________

FOOD WEB

Notes – arrows: eaten           eaten by

Identify an example of an organism from the food web above that obtains food in each of the following ways:

1. Herbivore  __________________________________________

2. Carnivore   __________________________________________

3. A predator and one (1) of its prey
   A. Predator __________________________________________
   B. Prey __________________________________________
4. Is there an omnivore in this food web? If yes, what is the animal? If no, why not?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

5. Write a food chain from the food web above. Include a producer and at least two consumers.

6. Two species on the planet Zork are the torgu and roppozoid. One is a predator and the other is its prey. In a particular ecosystem on Zork, there are 33 roppozoids and 311 torgu.
   a. Which animal is the predator? ___________________________________________

   b. Explain your answer in a above.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
7. Why does the predator population decrease twice on this graph?

_________________________________________________________
_________________________________________________________
_________________________________________________________

8. Why do the peaks of the predator and prey populations occur at different times?

_________________________________________________________
_________________________________________________________
_________________________________________________________
9. If the graph continued to the right, what would you predict would happen to the predator population? Explain your answer.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

10. Mark the graph above with an ‘X’ on a section of one of the two curves where the unit rate of change is a negative number.

11a. One of the line segments in the prey population curve has a unit rate of change of -400 animals per year. The y intercept of that line segment is 4,400. What is the formula for that line segment?

_________________________________________________________________________

11b. A point on the line in 11a indicates a population of 3600. How long in years from that point will it take for the population to be zero if the line continued?