

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Unit 10 Ecology Review Packet

### Topic #1: Population Ecology and Community

1. For the graph given to the right, explain how the birth rate compares to the death rate at points a, b, and d.

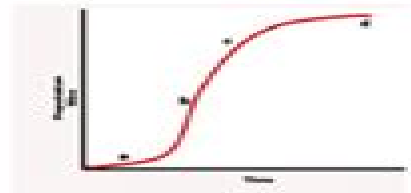
*A – birth rate is higher than death rate (but only marginally)*

*B – Birth rate is much higher than death rate (highest growth, almost exponential)*

*C- birth rate continues to be higher than death rate*

*D – birth rate and death are equal*

*\*note: could also include immigration with births and emigration with deaths*



2. Two populations of protists, *P. caudatum* and *P. aurelia*, were grown separately and then in mixed culture. What can you conclude about the effect of each species on the population size of the other species?

*There is interspecies competition between the two species. P Aurelia seems to have a limiting effect on P. caudatum.*



3. In the population growth equations, what does "K" stand for? Why is this value significant? (In other words, what does it mean?)

*K stands for the carrying capacity. It is significant because it allows for a more realistic growth and shows us how limiting factors can affect a population*

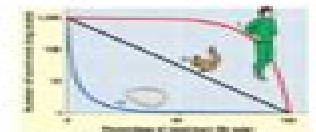
4. For the following survivorship curves on the graph to the right—Type I and Type III—answer the following questions.

A. What type of population is this... r-selected or k-selected?

B. Do organisms with this survivorship pattern typically die young or live to an old age?

C. Do organisms with this survivorship pattern typically reproduce once with many offspring or reproduce several times with a small number of offspring each time?

	Type I	Type III
A	K-selected	r-selected
B	Most Live to Old age	Most Die young
C	Several times, small #s	Once with many



5. Estimate the carrying capacity of the deer population on Walla Walla Island in the graph to the right. Why does the population size initially go over the carrying capacity?

*Approximately 80 deer – this is the overshoot and then limiting factors come into play and begin to downshoot the population*

6. For the food web shown to the right, how would a decrease in the number of owls affect the number of snakes and caterpillars?

*It would cause an increase in the number of snakes and thus a decrease in caterpillar because their predator is increasing.*



# Ecology Unit Packet Answer

**LP Steffe**

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the 'LP Steffe' text.

## Ecology Unit Packet Answer:

Florida Marine Education Resources Bibliography Marjorie R. Gordon,1983      *Model Law on Sustainable Management of Coastal Zones and European Code of Conduct for Coastal Zones* Council of Europe,2000-01-01 Coastal areas have experienced unprecedented dramatic changes in the last half of the 20th century especially in zones used for tourism development This code of conduct and model law on coastal areas establishes some general management principles aimed at the sustainable development of coastal areas and the preservation of their environmental values      **Resources in education** ,1985-02      *Information-seeking Strategies and Science Content Understandings of Sixth Grade Students Using On-line Learning Environments* Joseph Loris Hoffman,1999      **Instructor** ,1979      Grade Teacher ,1971      **Teacher** ,1976      **Film and Video Finder, 1997** ,1997      EE News ,1989      The Watsons Go to Birmingham Novel Units Teacher Guide Lori Mammen,2000 Describes suggested activities to be used in the classroom to accompany the reading of The Watsons go to Birmingham 1963      Coastal Resources Management Michele H. Lemay,Lynne Zeitlin Hale,1989      **Minnesota PTA News** ,1969      Resources in Education ,1996      **Middle Years** ,1994      Environmental Education: an Annotated Bibliography of Selected Materials and Services Available National Education Association of the United States. Environmental Education Program,1974      **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials,1978      *Frog and Toad are Friends, Frog and Toad Together, Frog and Toad All Year* by Arnold Lobel Phyllis Ann Green,Novel Units, Inc,2000 Suggests activities to be used in the classroom to accompany the reading of Frog and Toad are friends Frog and Toad together Frog and Toad all year by Arnold Lobel      *Proceedings - Vertebrate Pest Conference* ,1982      **El-Hi Textbooks and Serials in Print** ,2003      **Symposium** ,2008

## Reviewing **Ecology Unit Packet Answer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Ecology Unit Packet Answer**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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