

Dear Students,

For your summer reading assignment in AP Biology this year, you will be completing reading guides for chapters 42 and 43 in your AP Biology textbook. This section over ecology is one that will be on the AP exam and is important for understanding how organisms interact with each other. You will turn this in for your first grade of the year and have a test over it the first week of school. Please let me know if you have any questions.

Mrs. Owens

Reading Guide for Chapter 42

1. What is a population?
2. What is population density?
3. What is a population size?
4. What is a habitat?
5. Explain the BD model.
6. What is the difference in multiplicative and additive growth?

7. What is the population density?
8. What is carrying capacity or K ?
9. What does r decrease with crowding?
10. Why do limits to population growth lead to natural selection?
11. What is the difference in an open and closed system?

Ch. 43

1. What is a limiting factor?
2. What is predation?
3. What is an herbivore?
4. What is parasitism?
5. What is mutualism?
6. What is commensalism?
7. What is amensalism?
8. Give examples for numbers 4-7.
9. What is intraspecific competition?
10. What is the rarity advantage?

11. Describe the components of an equation for the per capita growth rate of a species that interacts with another species.

12. What are the possible outcomes of a predator-prey interaction in terms of the final population sizes of the two interacting species?

Define the following and give an example:

13. Primary producer

14. Primary consumer

15. Secondary consumer

16. Tertiary consumer

17. Trophic level

18. Omnivore

19. Decomposer