		Name
Unit 8	Study Guide	Date
		Period

Directions: There are 5 major sections for this unit. Fill in the following information below as a study guide for your unit 8 exam on ______. You will receive 5 extra credit points on your test if you turn this in 100% completed on the day of the exam. Your responses need to be close to the real answer and all questions must be answered to receive credit.

PART 1: Ecological Relationships (Lesson 8.1):

- 1. Describe parasitism.
- 2. Describe commensalism.
- 3. Describe mutualism.
- 4. What is a symbiotic relationship?
- 5. Give an example of two organisms in each type of relationship:
 - a. parasitism
 - b. commensalisms
 - c. mutualism
 - d. predator-prey

PART 2: Food Webs (Lesson 8.2):

- 6. What are decomposers (detrivores)?
- 7. What is the role of decomposers in an ecosystem?
- 8. Explain the difference between a producer and a consumer.
- 9. Why is a food web a better representation of the eating patterns than a food chain?
- 10. Explain the difference between a heterotroph and an autotroph.
- 11. Define detritus.
- 12. Draw a food chain and label the where to find decomposers (detrivores), producers (autotrophs) and consumers (heterotrophs both herbivores and carnivores.

PART 3: Population Dynamics (Lesson 8.3):

13. What are abiotic factors? Give 2 examples of abiotic factors in a desert ecosystem.

14. What are biotic factors? Give 2 examples of biotic factors in a desert ecosystem.

PART 4: Cycling of Matter, Energy, Water, Carbon and Nitrogen (Lesson 8.4 and 8.5)

- 15. Explain the difference between a primary consumer and a secondary consumer.
- 16. Draw a sample biomass pyramid in the space below. Label the location of the producers, primary consumers, secondary consumers, and top-consumers.
- 17. Which level has the greatest biomass?
- 18. Which level on your pyramid has the greatest amount of stored energy?
- 19. Describe what happens during the following stages of the water cycle:
 - a. Evaporation:
 - b. Condensation:
 - c. Transpiration:
 - d. Precipitation:
- 20. Draw a brief sketch of the carbon cycle below. Include *examples* of carbon going to the atmosphere and coming to land

PART 5: Watershed (Lesson 8.6):

- 21. Define Watershed
- 22. What determines the boundaries of a watershed?
- 23. What do watersheds provide?
- 24. List 3 types of pollution that get into our waterways and the source of each.
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- 25. What is an Ocean Dead Zone?
- 26. What is responsible for causing the dead zone?
- 27. Why is this a concern?

PART 6: Cane Toads (Lesson 8.7):

28. What is an invasive species?