Name			
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UNIT 2 (CH 3-4) STUDY GUIDE - ECOLOGY; Communities & Biomes

A) Textbook Review Questions: Chapter 3 Assessment (page 90-92) selected questions

		Chapter 3 Assessment:	
1)	8)	13)	22)
2)	9)	14)	23)
3)	10)	15)	24)
4)	11)	20)	
5)	12)	21)	

B) Textbook Review Questions: Chapter 4 Assessment (page 124-126) selected questions

Chapter 3 Assessment:			
1)	7)	14)	20)
2)	8)	15)	21)
3)	9)	16)	22)
4)	10)	17)	23)

C) QUESTIONS:

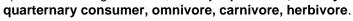
1) Determine if the following iter	ms are BIOTIC or ABIOTIC .	
Climate	School of fish	Rocks
Bacteria	Glacier	Moose

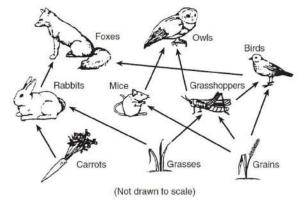


2) Distinguish between AUTOTROPHS and HETEROTROPHS. Give an example of each.

	scenarios and decide whether the scenario is describing one of the following symbiotic ons, competition, mutualism, commensalism, or parasitism
a	Tachinid larvae are a type of fly. They live by burrowing into a butterflies cocoon, then
-	plump caterpillar inside. They eventually kill the caterpillar before it becomes a butterfly.
Afterwards, the	ey cut a hole in the cocoon and fly away.
b.	After a lion makes a kill on its prey, hyena's often try to gang up on the lion for a share of
	usually try to distract the lion while members of their band snatch a bite and run.
parasites that	The oxpecker is a kind of bird. oxpeckers land on rhinos or zebras and eat ticks and other live on their skin. The oxpeckers get food and the beasts get pest control. Also, when there is speckers fly upward and scream a warning, which helps the symbiont.
	In the Antarctic a bush sponge attaches to the outer shell of the sea scallop. This give the the place to anchor on the ocean floor. The sea scallop is not harmed by the attached
ne following food mer, quarterna	d chain, identify the producer, tertiary consumer, primary consumer, secondary ary consumer.

5) In the following food web, identify a producer, tertiary consumer, primary consumer, secondary consumer,

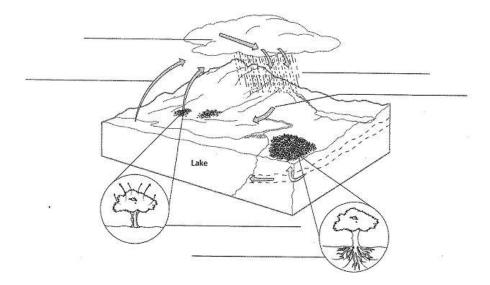




- 6) a. What is the %energy available at each trophic level? _____ WHY?? (where does the rest go?)
- b. Examine the energy pyramid to the right. If there was 250,000kcal of energy available to the producers, how much energy will be available to the secondary consumers?



7) In the chart below, identify the following steps of the water cycle; **condensation, precipitation, runoff, root uptake, evaporation, transpiration.**



- 10) How is carbon taken out of the atmosphere? Then list at least three things that release carbon into the air.
- 11) What is nitrogen used for? What is nitrogen fixation? How are decomposers a part of the nitrogen cycle?
- 12) Explain the difference between **PRIMARY SUCCESSION** and **SECONDARY SUCCESSION**. Give examples to help explain.
- 13) What are PIONEER SPECIES? In what stage of succession would you expect to find these?
- 14) Compare PHOTIC and APHOTIC zones in aquatic biomes.
- 15) What are **ESTUARIES**? (where do you find them? what are the major characteristics?)

My child has studied this study guide for <u>at least</u> 20 minutes (2 bonus points) (Parent/guardian signature)
 Ways to Study/Review Review all lecture notes and readings. Answer the questions at the end of EACH section AND chapter. Study with a friend (not just socialize). Look over old study guides. Flashcards Putting lecture notes into your own words Make yourself a test and take it. Also, have a friend make a test too and exchange tests. Come into class with questions! Review a little each day Do not cram the night before!
21) Define keystone species. Give an example of a keystone species and describe what would happen to an ecosystem if the keystone species was removed?
20) Compare NICHE and HABITAT .
19) Describe 3 factors that affect climate.
18) Compare WEATHER and CLIMATE.
f. Desert
e. Grassland
c. Deciduous Forests d. Rain Forest
b. Taiga
a. Tundra
17). Describe the key characteristics of the following biomes:

16). What are the limiting factors of terrestrial biomes? Of aquatic biomes?