

## Review Unit 2 Ecosystems Review

1. Be able to match the definitions to the following vocab words:

Abiotic factors \_\_\_\_\_

Biotic factors \_\_\_\_\_

Commensalism \_\_\_\_\_

Consumer \_\_\_\_\_

Decomposer \_\_\_\_\_

Ecological niche \_\_\_\_\_

Food chain \_\_\_\_\_

Food web \_\_\_\_\_

Habitat \_\_\_\_\_

Mutualism \_\_\_\_\_

Parasitism \_\_\_\_\_

Producer \_\_\_\_\_

Saprotrophic \_\_\_\_\_

Trophic level \_\_\_\_\_

2. Be able to provide short answers to the following questions coinciding with topics in the workbook.

1. Choose the letter of the term that corresponds to each of the statements below:

A. Community   B. Population   C. Ecosystem   D. Physical Factor

a. All the green tree frogs present in a rainforest. \_\_\_\_\_

b. An entire forest. \_\_\_\_\_

c. The humidity in a rainforest. \_\_\_\_\_

d. A community of organisms and their environment. \_\_\_\_\_

e. An association of different species interacting together. \_\_\_\_\_

2. Suggest a reason for the distribution of deserts and semi-desert areas in northern parts of Asia and in the west of North and South America (away from the equatorial regions).

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3. Explain how temperature and rainfall affect the distribution of biomes.

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4. Identify three microclimates that a land animal might exploit in the desert to avoid the extreme mid-day heat.

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5. Using an example, explain why a forest with a strong pattern of stratification might provide a greater diversity of habitats than a forest without such a vertical structure.

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6. Rocky intertidal pools above the normal high water mark can have wide extremes of salinity. What abiotic conditions might cause these pools to have high salinity.

7. Describe the trend in the following from surface to lake bottom for:

a. Water temperature

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b. Dissolved oxygen

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c. Light penetration

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8. Explain the way the realized niche could be regarded as flexible:

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9. Describe the differences in producers and consumers with respect to their role in energy transfer.

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10. Explain why photosynthesis is so important to life on earth(2 reasons).

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11. Describe what happens to the amount of energy available to each successive trophic level in a food chain.

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12. Draw a food web from our river(approximately) with at least 7 items in it.

13. Draw a pyramid of numbers for a forest community with only a few large trees as the producers.

14. Complete the following table:

Interaction	Species A	Species B
mutualism	+	
commensalism	+	
parasitism	-	
predation	-	
competition	-	

15. Write a summary of your presentation on this unit: