

AP Biology  
Chapter 52 Guided Reading

Name Key 8<sup>th</sup> edition

1. Define the following terms:

- a. Abiotic - non-living
- b. Biotic - living

c. Give an example of the interactions of biotic and abiotic factors.

low precipitation levels in areas in internal Australia are good habitats for red kangaroos

2. What do the following subfields of ecology study?

- a. Organismal ecology - how organism structure, physiology and behavior meet challenges in the environment
- b. Population ecology - include the definition of population  
some species living in an area, factors that affect population size
- c. Community ecology - include the definition of community  
groups of populations in an area, interactions between species that affect community structure
- d. Ecosystem ecology - include the definition of ecosystem  
communities and abiotic factors, energy flow and chemical cycling
- e. Landscape ecology  
exchanges of energy, materials and organisms across ecosystems
- f. Global ecology - include the definition of biosphere  
all the planet's ecosystems, regional exchange of energy and materials and their effects on organisms

\* 3. Explain the factors that affect dispersal of organisms.

natural range expansions - organisms gradually expand the areas in which they live  
species transplants - artificially moving organisms

4. Give two examples of the impact of abiotic factors on the distribution of organism:

- a. Temperature - too low will rupture cells  
- active metabolism can't be maintained at very high or very low temps.
- b. Water - tidal wetlands dry out as tide recedes  
- desert organisms are adapted to conserve water
- c. Sunlight - competition for sunlight by seedlings growing on the forest floor  
- too much sunlight can increase temperature stress if animals can't avoid light
- d. Wind - branches are limited in growth on the windward side of trees  
- plants have a difficult time establishing themselves on a windy beach
- e. Rocks and soil - pH, minerals and physical structure limits distribution of plants and the animals that feed on them  
- bottom surface of streams and rivers can affect water chemistry

\* Behavior and Habitat Selection - avoidance of some areas or habitats

Biotic factors - organisms that eat can limit the distribution of organisms that get eaten

# Ap Biology Chapter 54 Guided Reading Answers

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