

# Chapter 3: The Biosphere

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## Massachusetts State Standards

3.3 Use a food web to identify and distinguish producers, consumers, and decomposers, and explain the transfer of energy through trophic levels.

3.4 Explain how biotic and abiotic factors cycle in an ecosystem (carbon, oxygen, nitrogen, and more).

### Key Terms

Autotrophs  
Primary Producers  
Consumers  
Heterotrophs  
Carnivores  
Herbivores  
Omnivores  
Decomposers  
Detritivores

Scavengers  
Energy flows  
Trophic Levels  
Food Chain  
Food Webs  
Biological Pyramid  
Nutrient Pyramid  
Energy Pyramid  
Primary Productivity

Biogeochemical Cycles  
Water Cycle  
Nitrogen  
Oxygen  
Carbon Cycle  
Nitrogen Cycle  
Nitrogen Fixation  
Phosphorus Cycle

### You should be able to:

1. Define ecology.
2. Differentiate between the different organisms, populations, communities, ecosystems, biomes, and the biosphere.
3. Differentiate between biotic and abiotic factors, and provide examples of each.
4. Explain how energy moves through an ecosystem and why.
5. Identify the main source of energy for most life on earth.
6. Trace the path of energy through a food web.
7. Identify organisms in a food web based on their trophic level (producer? Primary consumer? Secondary consumer? Tertiary and? Carnivore? Autotroph? Heterotroph?)
8. Define trophic level.
9. Explain the 10% rule.
10. Discuss how and where energy is lost as it moves through an ecosystem.
11. Calculate the amount of energy available available to organisms at different trophic levels.
12. Describe where decomposers would be placed in an ecological pyramid and explain why.
13. Explain how nutrients move through an ecosystem and why.
14. Discuss the paths of nutrients in the 4 Biogeochemical cycles (water, carbon, nitrogen, phosphorus).

### You should know the difference between:

- Autotrophs and heterotrophs
- Producers and consumers
- Biomes, energy and nutrient pyramids
- Primary, tertiary and secondary producers
- Herbivores, omnivores, and carnivores
- Detritivores and decomposers
- Food chain and food web
- Energy flow and nutrient cycling
- Biogenesis, abiogenesis and panspermia
- Photosynthesis and cellular respiration
- Nitrogen fixation, denitrification, nitrification, and more

# Guided Reading And Study Workbook Chapter 3 The Biosphere Answers

**KJ Lindholm-Leary**



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