

Name _____

Period _____

Date _____

SECTION | ECOSYSTEMS SUPPORT LIFE.

1.1 Reinforcing Key Concepts

CHAPTER 1
Ecosystems and Biomes

BIG IDEA Matter and energy together support life within an environment.

KEY CONCEPT Ecosystems support life.

- 1. Living things depend on the environment.** An ecosystem is a particular environment and all of the living things that are supported by it. Use the chart to list parts of the ecosystem of your school playground. Be sure you list both living and nonliving parts.

School Playground Ecosystem
Living Parts
Nonliving Parts

- 2. Biotic factors interact with an ecosystem.** Biotic factors in an ecosystem are factors that are living things. Look at the chart you made about your school playground ecosystem. Circle the biotic factors. List two more biotic factors.

- 3. Many abiotic factors affect ecosystems.** Draw a simple picture of an ecosystem, such as a pond, forest, desert, or city street. Your picture should include three biotic factors and three abiotic factors. Draw and label arrows to show how the factors in the ecosystem affect each other.

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SECTION | MATTER CYCLES THROUGH ECOSYSTEMS.

1.2 Reinforcing Key Concepts

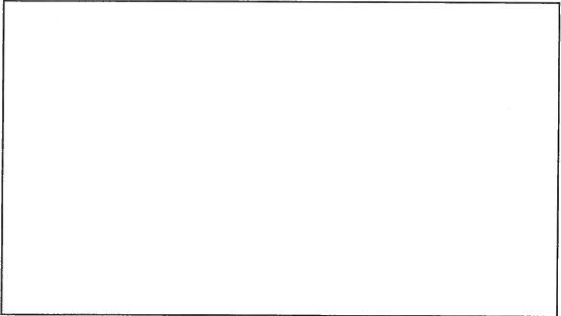
BIG IDEA Matter and energy together support life within an environment.

KEY CONCEPT Matter cycles through ecosystems.

1. **All ecosystems need certain materials.** What materials are part of the three most important cycles in ecosystems?

2. **Water cycles through ecosystems.** Water moves through the environment continuously in a path called the water cycle. Draw a circular diagram showing a water cycle. Use all the words in the box.

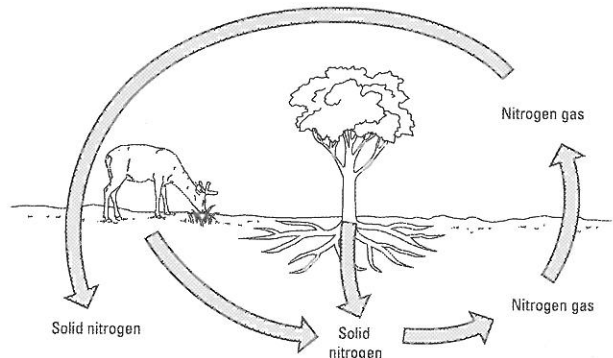
precipitation, evaporation, runoff, water vapor, condensation



3. **Carbon cycles through ecosystems.** Carbon is part of every living thing on Earth. Describe how each entry in the chart is part of the carbon cycle.

Part of Carbon Cycle	What This Part Does
Plant	
Animal	
Water	
Cars/Fuel-burning machines	

4. **Nitrogen cycles through ecosystems.** The nitrogen cycle, shown below, is important in helping living things survive. Explain why living things need nitrogen.



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Ecosystems and Biomes

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CHAPTER 1
Ecosystems and Biomes

SECTION ENERGY FLOWS THROUGH ECOSYSTEMS.

1.3 Reinforcing Key Concepts

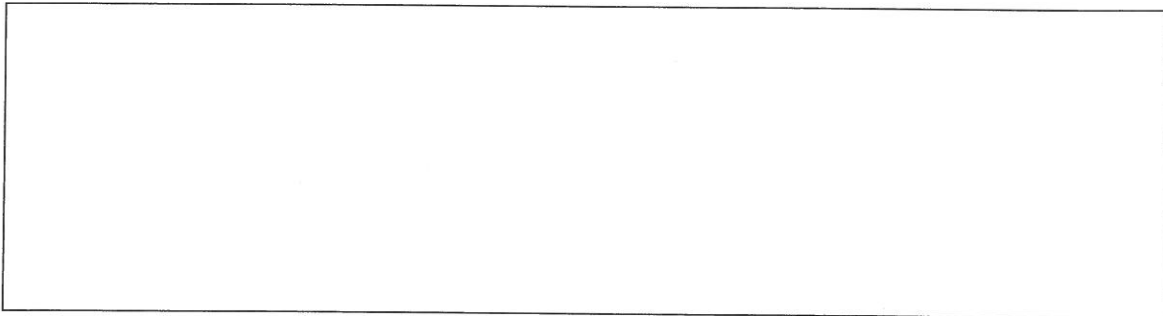
BIG IDEA Matter and energy together support life within an environment.

KEY CONCEPT Energy flows through ecosystems.

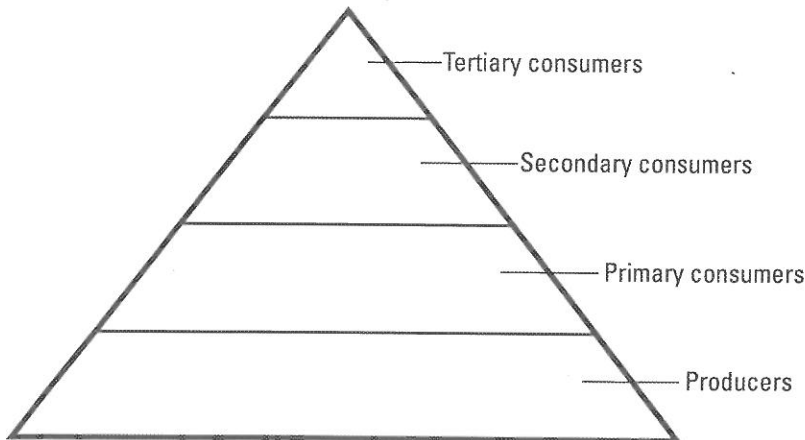
1. **Living things capture and release energy.** Consumers, producers, scavengers, and decomposers play important roles in an ecosystem. Before each type of organism, write the name of something that could use that type of organism as a food source.

- _____ → secondary consumer
- _____ → scavenger
- _____ → producer
- _____ → decomposer

2. **Models help explain feeding relationships.** Food chains and food webs are models that help explain how energy moves through ecosystems. In the space below, draw a food web that includes the following organisms: a garter snake, a patch of grass, a red-tailed hawk, a deer mouse, an earthworm, and a robin.



3. **Available energy decreases as it moves through an ecosystem.** An energy pyramid shows the energy at each feeding level of an ecosystem. In the diagram below, draw pictures of the following organisms: minnow, tuna, seaweed, and shark. Be sure to put each picture in its correct level.



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