

Section 3–2 Energy Flow (pages 67–73)

This section explains where the energy for life processes comes from. It also describes how energy flows through living systems and how efficient the transfer of energy is among organisms in an ecosystem.

Introduction (page 67)

1. What is at the core of every organism's interaction with the environment?

At the core is its need for energy to power life's processes.

Producers (pages 67–68)

2. What source of energy do organisms use that don't use the sun's energy?

Such organisms rely on the energy stored in inorganic chemical compounds.

3. What are autotrophs? They are organisms that can capture energy from sunlight or chemicals and use that energy to produce food.

4. Why are autotrophs also called producers? They make their own food.

5. What do autotrophs do during photosynthesis? They use light energy to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starch.

6. For each of the following, write which kind of autotroph is the main producer.

a. Land: Plants

b. Upper layers of ocean: Algae

c. Tidal flats and salt marshes: Photosynthetic bacteria

7. What is chemosynthesis? It is the process by which organisms use chemical energy to produce carbohydrates.

8. Where do bacteria that carry out chemosynthesis live? They live in remote places, such as volcanic vents on the deep-ocean floor and hot springs in Yellowstone Park. They also live in more common places, such as tidal marshes along the coast.

Consumers (pages 68–69)

9. Heterotrophs are also called consumers.

10. Plant and animal remains and other dead matter are collectively called detritus.

Answer Key To Section 3 2 Energy Flow

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