

Chapter 5 – How Ecosystems work

5.1 Energy Flow in Ecosystems

5.2 The Cycling of Matter

5.3 How Ecosystems Change

5.1 Energy Flow in Ecosystems - Objectives

- ☐ Describe how energy is transferred from the sun to producers and then to consumers.
- ☐ Describe one way in which consumers depend on producers.
- ☐ Identify two types of consumers.
- ☐ Explain how energy transfer in a food web is more complex than energy transfer in a food chain.
- ☐ Explain why an energy pyramid is a representation of trophic levels.

Life Depends on the Sun

- ☐ Energy from the sun enters an ecosystem when plants use light energy to make sugar molecules.
- ☐ This happens through a process called _____.

Life Depends on the Sun

- ☐ _____ is the process by which plants, algae, and some bacteria use sunlight, carbon dioxide, and water to produce carbohydrates and oxygen.



From Producers to Consumers

- ☐ Because plants make their own food, they are called *producers*.
- ☐ _____ is an organism that can make organic molecules from inorganic molecules.
- ☐ Producers are also called _____, or self-feeders.

Energy From Xcel Energy Student Guide

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