

## 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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