

## 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

**Marco Cascella**



## **Energy From Xcel Energy Student Guide:**

## **Energy From Xcel Energy Student Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Energy From Xcel Energy Student Guide**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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