

STAAR Science Tutorial 52 **TEK 8.11D: Food Webs & Symbiosis**

TEK 8.11A: Describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs within marine, freshwater, and terrestrial ecosystems.

Energy Roles & Food Webs

- It is essential for each organism in an ecosystem to have a source of energy to survive. In all land and most aquatic ecosystems, the **original source of energy** supporting all life is radiant (electromagnetic) energy from the **Sun**.
- **Producers** are the organisms that have the ability to obtain energy from a non-living source such as the Sun or deep-sea volcanic vents. On land and in shallow aquatic ecosystems, plants are the producers that create food for the rest of the ecosystem through the process of **photosynthesis**. In this chemical reaction, carbon dioxide (CO_2) and water (H_2O) (the reactants) are broken down and recombined into sugar ($\text{C}_6\text{H}_{12}\text{O}_6$) and oxygen (O_2) (the products).
- In deep-sea ecosystems near volcanic vents and in rock, there are organisms called **chemotrophs** that can use chemical energy instead of radiant energy to survive. The chemical reaction varies with the ecosystem, but generally uses available chemical energy to make food in a process called **chemosynthesis**.
- An organism that uses photosynthesis or chemosynthesis to produce food is also known as an **autotroph**, which means "self-feeding".
- **Consumers** (also called **heterotrophs**) are organisms that cannot make their own food. They obtain their food by eating producers. Consumers can further be classified by what they eat:
 - **Omnivores** eat both plants and animals. Examples of omnivores are humans and bears.
 - **Herbivores** eat only plants. Examples of herbivores are cows and antelope.
 - **Scavengers** are animals that eat the bodies of already dead animals. A buzzard is an example of a scavenger.
 - **Carnivores** only eat other animals that they have killed. Examples of carnivores are wolves and lions. Some animals that are usually carnivores may also eat dead animals they find. Examples of carnivores that may act as a scavenger are coyotes and hawks.
- **Decomposers** are organisms that break down waste and dead organisms not already eaten by scavengers, so that the life-essential elements and compounds can be returned to the environment. The two main classes of decomposers are bacteria and fungi.
- The energy role of an organism, shown by its position in a food web, is called its **trophic level**. In land ecosystems, there are usually four trophic levels: **producer**,

Staar Science Tutorial 27 Answers

Michael Brown



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Table of Contents Staar Science Tutorial 27 Answers

1. Understanding the eBook Staar Science Tutorial 27 Answers
 - The Rise of Digital Reading Staar Science Tutorial 27 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Staar Science Tutorial 27 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Staar Science Tutorial 27 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Staar Science Tutorial 27 Answers
 - Personalized Recommendations
 - Staar Science Tutorial 27 Answers User Reviews and Ratings
 - Staar Science Tutorial 27 Answers and Bestseller Lists

5. Accessing Staar Science Tutorial 27 Answers Free and Paid eBooks
 - Staar Science Tutorial 27 Answers Public Domain eBooks
 - Staar Science Tutorial 27 Answers eBook Subscription Services
 - Staar Science Tutorial 27 Answers Budget-Friendly Options
6. Navigating Staar Science Tutorial 27 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Staar Science Tutorial 27 Answers Compatibility with Devices
 - Staar Science Tutorial 27 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Staar Science Tutorial 27 Answers
 - Highlighting and Note-Taking Staar Science Tutorial 27 Answers
 - Interactive Elements Staar Science Tutorial 27 Answers
8. Staying Engaged with Staar Science Tutorial 27 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Staar Science Tutorial 27 Answers
9. Balancing eBooks and Physical Books Staar Science Tutorial 27 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Staar Science Tutorial 27 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Staar Science Tutorial 27 Answers
 - Setting Reading Goals Staar Science Tutorial 27 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Staar Science Tutorial 27 Answers
 - Fact-Checking eBook Content of Staar Science Tutorial 27 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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