

STAAR Science Tutorial 38

TEK 7.10C: Succession

TEK 7.10C: Observe, record, and describe the role of ecological succession such as in a microhabitat of a garden with weeds.

- In an ecosystem, a **habitat** is the place in which an organism lives and finds all of the resources necessary for its survival. Examples of habitats include a salt-water marsh, an open meadow, or an oak forest.
- Many different species can live in a habitat, though each species will probably spend most of its time in specific small areas of the habitat, called **microhabitats**. Examples of microhabitats include a rotting log laying the forest, the leaves and flowers of certain plants in the meadow, the top branches of the oak trees in the forest, or in the litter on the forest floor. Microhabitats provide specialized requirements for a limited number of species.
- A **community** is all of the living organisms that live in an area. Each **population** of species within the community interacts with one another in interconnected **food webs** and symbiotic relationships—the **biotic** factors of the ecosystem.
- See Tutorial 47: Competition for a complete discussion of habitats, biotic and abiotic factors, populations and communities. See Tutorial 46: Food Webs and Symbiosis for a complete discussion of food webs and symbiotic relationships.
- In a healthy ecosystem, the population of each species of the community is in **equilibrium** (in balance) with one another. The limited resources of the ecosystem, the established niche of each species, and the predator-prey relationships of the ecosystem tend to keep each population within a narrow range. This stable community is called a **climax community**, because once achieved, it tends to continue with little change.
- This normal equilibrium ends when a **disturbance** or catastrophic event occurs within the ecosystem. Examples of disturbances include wildfires, hurricanes, floods, extreme droughts, volcanic eruptions, human habitat destruction and glacial action.
- After such a disturbance, natural processes slowly work to restore the ecosystem to equilibrium. This process, called **succession**, is the series of predictable changes to the community that occur over time until a new climax community is established.
- There are two kinds of succession: primary succession and secondary succession. They differ with the severity of the disturbance, and in particular, whether soil exists in the ecosystem after the disturbance.
- **Primary succession** begins with exposed solid rock, with no layer of soil in which plants can start growing. The disturbances that begin primary succession include volcanic eruptions with lava flows, receding glaciers leaving bare rock, and newly uncovered land caused by tectonic uplift or dropping sea levels. **Pioneer species**,

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George A. Khachatryan



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Table of Contents Staar Science Tutorial 38

1. Understanding the eBook Staar Science Tutorial 38
 - The Rise of Digital Reading Staar Science Tutorial 38
 - Advantages of eBooks Over Traditional Books
2. Identifying Staar Science Tutorial 38
 - 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 38
 - User-Friendly Interface
4. Exploring eBook Recommendations from Staar Science Tutorial 38
 - Personalized Recommendations
 - Staar Science Tutorial 38 User Reviews and Ratings
 - Staar Science Tutorial 38 and Bestseller Lists
5. Accessing Staar Science Tutorial 38 Free and Paid eBooks
 - Staar Science Tutorial 38 Public Domain eBooks
 - Staar Science Tutorial 38 eBook Subscription Services
 - Staar Science Tutorial 38 Budget-Friendly Options

6. Navigating Staar Science Tutorial 38 eBook Formats
 - ePub, PDF, MOBI, and More
 - Staar Science Tutorial 38 Compatibility with Devices
 - Staar Science Tutorial 38 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Staar Science Tutorial 38
 - Highlighting and Note-Taking Staar Science Tutorial 38
 - Interactive Elements Staar Science Tutorial 38
8. Staying Engaged with Staar Science Tutorial 38
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Staar Science Tutorial 38
9. Balancing eBooks and Physical Books Staar Science Tutorial 38
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Staar Science Tutorial 38
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Staar Science Tutorial 38
 - Setting Reading Goals Staar Science Tutorial 38
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Staar Science Tutorial 38
 - Fact-Checking eBook Content of Staar Science Tutorial 38
 - 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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