

## **STAAR Science Tutorial 47**

### **TEK 8.11B: Competition**

**TEK 8.11B:** *Investigate how organisms and populations in an ecosystem depend on and may compete for biotic and abiotic factors such as quantity of light, water, range of temperatures, or soil composition.*

#### **Ecosystems**

- **Ecology** is the scientific study of the interactions of living organisms with their environment. **Ecologists** are scientists who study ecology.
- All of the living organisms on Earth, together with the parts of Earth that can support life, is called the **biosphere**. The biosphere can be classified into different **biomes**, all of the areas of earth with a similar climate and vegetation. Examples of biomes include tropical rain forests and deserts. An **ecosystem** is a defined single area of one biome type, together with all of the living organisms in that area and the non-living factors affecting the organisms. For example, the Chihuahuan Desert of west Texas is an ecosystem that is part of the worldwide desert biome.
- A **population** is all of the individual organisms of a single species living in a defined area. A **species** is one particular kind of organism that can breed with others of its kind to produce fertile offspring (children who will be able to have children of their own). All of the populations living in a defined area is the **community**.
- The levels of organization in the biosphere is summarized by this diagram:



- **Biotic** (living) factors in an ecosystem includes all of the living organisms found in an area, and the interactions between those organisms, such as resource competition, predation (predator-prey relationships) and symbiosis. This tutorial describes competition in more detail below. See *Tutorial 48: Food Webs and Symbiosis* for more information on predator-prey and symbiotic relationships.
- **Abiotic** (non-living) factors include the defining characteristics of the environment, such as the climate (especially temperature range and rainfall amounts), water, sunlight, air, rock and soil types, including the availability of elements essential to life (for example, nitrogen and phosphorus).
- Each species has a **niche**, a set of biotic and abiotic conditions in which it can survive and maintain a stable population. A species' niche includes its place in the food web, the symbiotic relationships of which it is part, and the physical conditions necessary to its survival. A species' niche includes its "role" in the ecosystem.

# Staar Science Tutorial 47 Answers

**George A. Khachatryan**



**Staar Science Tutorial 47 Answers:**

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### **Table of Contents Staar Science Tutorial 47 Answers**

1. Understanding the eBook Staar Science Tutorial 47 Answers
  - The Rise of Digital Reading Staar Science Tutorial 47 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Staar Science Tutorial 47 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 47 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Staar Science Tutorial 47 Answers
  - Personalized Recommendations
  - Staar Science Tutorial 47 Answers User Reviews and Ratings
  - Staar Science Tutorial 47 Answers and Bestseller Lists

5. Accessing Staar Science Tutorial 47 Answers Free and Paid eBooks
  - Staar Science Tutorial 47 Answers Public Domain eBooks
  - Staar Science Tutorial 47 Answers eBook Subscription Services
  - Staar Science Tutorial 47 Answers Budget-Friendly Options
6. Navigating Staar Science Tutorial 47 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Staar Science Tutorial 47 Answers Compatibility with Devices
  - Staar Science Tutorial 47 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Staar Science Tutorial 47 Answers
  - Highlighting and Note-Taking Staar Science Tutorial 47 Answers
  - Interactive Elements Staar Science Tutorial 47 Answers
8. Staying Engaged with Staar Science Tutorial 47 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Staar Science Tutorial 47 Answers
9. Balancing eBooks and Physical Books Staar Science Tutorial 47 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Staar Science Tutorial 47 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Staar Science Tutorial 47 Answers
  - Setting Reading Goals Staar Science Tutorial 47 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Staar Science Tutorial 47 Answers
  - Fact-Checking eBook Content of Staar Science Tutorial 47 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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