

Big Idea 17 – Interdependence

SC.7.L.17.1 Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.

SC.7.L.17.2 Compare and contrast the relationship among organisms such as mutualism, predation, parasitism, competition, and commensalism.

SC.7.L.17.3 Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

E? What is Ecology?

Ecology is the scientific study of interactions among organisms and between organisms and their physical environment.

Biosphere: consists of all life on Earth and all parts of the Earth in which life exists, including land, water, and the atmosphere.

E? What are biotic and abiotic factors?

The biological influences on organisms are called biotic factors. The physical components of an ecosystem are called abiotic factors.

Biotic Factors: any living part of the environment with which an organism might interact, including animals, plants, mushrooms, and bacteria.

Abiotic Factors: any nonliving part of the environment, such as sunlight, heat, precipitation, humidity, wind or water currents, soil type, and so on.



BIOTIC components

Food availability (alligator diet consists of fish, frogs and invertebrates)
Competition (with snapping turtles and herons for food and other alligators for space/ food/ mates)
Disease (caused by bacteria, viruses or fungi)
Parasites (such as flatworms)
Plants (eg. bald cypress, swamp gum, cypress) provide shade, protection and habitats for prey, recycle nutrients, absorb CO₂ and provide O₂

ABIOTIC components

Temperature of the air/ water (particularly important as alligators are cold-blooded)
Climate (rainfall, humidity, wind... all affect the gator's activity)
Sunlight (intensity as well as length of day/night)
Oxygen available (they need it for respiration)
pH and salinity (could affect its drinking water supply, also indirectly in terms of food availability and plant activity)

Fcat Study Guide 7th Grade 2013

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Table of Contents Fcat Study Guide 7th Grade 2013

1. Understanding the eBook Fcat Study Guide 7th Grade 2013
 - The Rise of Digital Reading Fcat Study Guide 7th Grade 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Fcat Study Guide 7th Grade 2013
 - 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 Fcat Study Guide 7th Grade 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fcat Study Guide 7th Grade 2013
 - Personalized Recommendations
 - Fcat Study Guide 7th Grade 2013 User Reviews and Ratings
 - Fcat Study Guide 7th Grade 2013 and Bestseller Lists
5. Accessing Fcat Study Guide 7th Grade 2013 Free and Paid eBooks
 - Fcat Study Guide 7th Grade 2013 Public Domain eBooks
 - Fcat Study Guide 7th Grade 2013 eBook Subscription Services

- Fcat Study Guide 7th Grade 2013 Budget-Friendly Options
- 6. Navigating Fcat Study Guide 7th Grade 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Fcat Study Guide 7th Grade 2013 Compatibility with Devices
 - Fcat Study Guide 7th Grade 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fcat Study Guide 7th Grade 2013
 - Highlighting and Note-Taking Fcat Study Guide 7th Grade 2013
 - Interactive Elements Fcat Study Guide 7th Grade 2013
- 8. Staying Engaged with Fcat Study Guide 7th Grade 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fcat Study Guide 7th Grade 2013
- 9. Balancing eBooks and Physical Books Fcat Study Guide 7th Grade 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fcat Study Guide 7th Grade 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fcat Study Guide 7th Grade 2013
 - Setting Reading Goals Fcat Study Guide 7th Grade 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fcat Study Guide 7th Grade 2013
 - Fact-Checking eBook Content of Fcat Study Guide 7th Grade 2013
 - 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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