

## 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 CO<sub>2</sub> and provide O<sub>2</sub>

#### 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

**J Elliott**



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