



# web of water

Web of Water Webisode 5: In the Coastal Zone

South Carolina Science Standards Grades 2-12

These standards correlate to Webisode 5 of the Web of Water Series at <http://www.webofwater.org>.

## GRADE 2

### Animals

**Standard 2-2:** The student will demonstrate an understanding of the needs and characteristics of animals as they interact in their own distinct environments. (Life Science)

**Indicators**

2-2.4 Summarize the interdependence between animals and plants as sources of food and shelter.

## GRADE 3

### Habitats and Adaptations

**Standard 3-2:** The student will demonstrate an understanding of the structures, characteristics, and adaptations of organisms that allow them to function and survive within their habitats. (Life Science)

**Indicators**

3-2.1 Illustrate the life cycles of seed plants and various animals and summarize how they grow and are adapted to conditions within their habitats.



- 3-2.2 Explain how physical and behavioral adaptations allow organisms to survive (including hibernation, defense, locomotion, movement, food obtainment, and camouflage for animals and seed dispersal, color, and response to light for plants).

## GRADE 3

### Earth's Materials and Changes

**Standard 3-3:** The student will demonstrate an understanding of Earth's composition and the changes that occur to the features of Earth's surface. (Earth Science)

#### Indicators

- 3-3.3 Illustrate Earth's saltwater and freshwater features (including oceans, seas, rivers, lakes, ponds, streams, and glaciers).
- 3-3.4 Illustrate Earth's land features (including volcanoes, mountains, valleys, canyons, caverns, and islands) by using models, pictures, diagrams, and maps.

## GRADE 4

### Organisms and Their Environments

**Standard 4-2:** The student will demonstrate an understanding of the characteristics and patterns of behavior that allow organisms to survive in their own distinct environments. (Life Science)

#### Indicators

- 4-2.2 Explain how humans and other animals use their senses and sensory organs to detect signals from the environment and how their behaviors are influenced by these signals.
- 4-2.6 Explain how organisms cause changes in their environment.

## GRADE 5

### Ecosystems: Terrestrial and Aquatic

**Standard 5-2:** The student will demonstrate an understanding of relationships among biotic and abiotic factors within terrestrial and aquatic ecosystems. (Life Science)

#### Indicators



- 5-2.3 Compare the characteristics of different ecosystems (including estuaries/salt marshes, oceans, lakes and ponds, forests, and grasslands).

## GRADE 5

### Landforms and Oceans

**Standard 5-3:** The student will demonstrate an understanding of features, processes, and changes in Earth's land and oceans. (Earth Science)

**Indicators**

- 5-3.6 Explain how human activity (including conservation efforts and pollution) has affected the land and the oceans of Earth.

## GRADE 6

### Structures, Processes, and Responses of Plants

**Standard 6-2:** The student will demonstrate an understanding of structures, processes, and responses of plants that allow them to survive and reproduce. (Life Science)

**Indicators**

- 6-2.1 Compare the characteristic structures of various groups of plants (including vascular or nonvascular, seed or spore-producing, flowering or cone-bearing, and monocot or dicot).

## GRADE 6

### Structures, Processes, and Responses of Animals

**Standard 6-3:** The student will demonstrate an understanding of structures, processes, and responses of animals that allow them to survive and reproduce. (Life Science)

**Indicators**

- 6-3.1 Compare the response that a warm-blooded (endothermic) animal makes to a fluctuation in environmental temperature with the response that a cold-blooded (ectothermic) animal makes to such a fluctuation.



## GRADE 7

### Ecology: The Biotic and Abiotic Environment

**Standard 7-4:** The student will demonstrate an understanding of how organisms interact with and respond to the biotic and abiotic components of their environment. (Earth Science, Life Science)

#### Indicators

7-4.5 Summarize how the location and movement of water on Earth's surface through groundwater zones and surface-water drainage basins, called watersheds, are important to ecosystems and to human activities.

## 9-12

### EARTH SCIENCE

#### Earth's Hydrosphere

**Standard ES-5:** The student will demonstrate an understanding of Earth's freshwater and ocean systems.

#### Indicators

ES-5.1 Summarize the location, movement, and energy transfers involved in the movement of water on Earth's surface (including lakes, surface-water drainage basins [watersheds], freshwater wetlands, and groundwater zones).

ES-5.2 Illustrate the characteristics of the succession of river systems.

