

Virtual Field Trip Program Offerings 2020—2021

Sunshine State Standards Covered :

Each virtual field trip is ideally designed for a single class of up to ~40 students.

1st Grade	SC.1.L.17.1	5th Grade	SC.5.L.15.1
	SC.1.N.1.2		SC.5.L.17.1
2nd Grade	SC.2.L.17.1	6th Grade	SC.6.E.7.7
	SC.2.L.17.2		SC.6.E.7.8
3rd Grade	SC.3.N.3.2	7th Grade	SC.7.E.6.6
	SC.3.L.15.1		SC.7.L.15.3
4th Grade	SC.4.L.16.3	8th Grade	SC.8.N.4.1
	SC.4.L.17.4		SC.8.N.4.2
		9th-12th Grade	SC.912.N.1.6
			SC.912.N.2.4

<u>Program Cost:</u>	5th-8th = \$120
1st-4th = \$60	9th and up = \$135

Our Sea Turtle Virtual Lessons Cover:

Biology and Ecology of Sea Turtles:

Sea turtle adaptations, behavior, diet,
nesting patterns and life cycle.

Conservation of the World's Sea Turtles:

Threats to sea turtles and what we,
as environmental stewards, can do to help.

Florida Oceanographic's Non-Releasable Sea Turtles:

How our organization cares for and enriches the permanently
disabled sea turtles that call our facility home.

Time Frame:

1st-4th grade (Ages 6-10) - **up to 30 mins.**

5th-8th grade (Ages 10-14) - **up to 50 mins.**

9th-12th grade (Ages 14-18) - **up to 1 hr.**

Classroom Requirements:

Computer with internet access and free Skype account, webcam,
microphone, speakers, and digital projector (A pre-program test
session will be scheduled to ensure connectivity).

For questions or availability, please contact: Yasmeen Fadlallah at 772-225-0505 ext. 116 *or* yfadlallah@floridaocean.org

To schedule a virtual field trip, please visit: <https://www.floridaocean.org/virtual-field-trips>

Virtual Field Trip Standards by Grade

1st Grade:

SC.1.L.17.1 Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.

SC.1.N.1.2 Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.

2nd Grade:

SC.2.L.17.1 Compare and contrast the basic needs that all living things, including humans, have for survival.

SC.2.L.17.2 Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.

3rd Grade:

SC.3.N.3.2 Recognize that scientists use models to help understand and explain how things work.

SC.3.L.15.1 Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.

4th Grade:

SC.4.L.16.3 Recognize that animal behaviors may be shaped by heredity and learning.

SC.4.L.17.4 Recognize ways plants and animals, including humans, can impact the environment.

5th Grade:

SC.5.L.15.1 Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.

SC.5.L.17.1 Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

6th Grade:

SC.6.E.7.7 Investigate how natural disasters have affected human life in Florida.

SC.6.E.7.8 Describe ways human beings protect themselves from hazardous weather and sun exposure.

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9th & up = \$135

7th Grade:

SC.7.E.6.6 Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.

SC.7.L.15.3 Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.

8th Grade:

SC.8.N.4.1 Explain that science is one of the processes that can be used to inform decision making at the community, state, national, and international levels

SC.8.N.4.2 Explain how political, social, and economic concerns can affect science, and vice versa.

9th—12th Grade:

SC.912.N.1.6 Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.

SC.912.N.2.4 Explain that scientific knowledge is both durable and robust and open to change. Scientific knowledge can change because it is often examined and re-examined by new investigations and scientific argumentation. Because of these frequent examinations, scientific knowledge becomes stronger, leading to its durability.

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Advanced Sea Turtle Biology, Ecology, and Conservation

This in-depth lecture is focused on our planet's seven sea turtle species. Students will also get an overview of the Endangered Species Act and other laws designed to protect and conserve rare organisms in the United States and around the globe.

Harmful Algae Blooms and Their Impacts on the Environment

This crash course will cover cyanobacteria, red tide, and other types of harmful algae blooms, the causes of these blooms, and how water mismanagement and population growth have led to algae issues around the globe. We use Florida's ongoing water issues to illustrate specific algae problems, but this program can be catered towards students in Florida, or in other areas.

The Science Behind Oyster Reef Restoration

Students will learn about the biology, ecology, and economics of oyster reef and living shoreline restoration projects, and get an overview of the restoration work being carried out by Florida Oceanographic Society.

Florida's Invasive Reptiles and Amphibians

Florida's non-native reptile and amphibian species serve as a tool to discuss broader issues associated with exotic and invasive species globally. While this program does cover reptile-related issues in Florida, it is designed to provide students with a broader understanding of species invasions at the global level.

Program Cost:

**9th grade through
college = \$135
~ 1 hour**