



DEERING ESTATE

# Marine Conservation Homeschool 2022-2023

## October “Marine Explorers”

**Date: October 5, 2022**

**Activity: Discovering South Florida’s Mangroves**

**Description:** Students will explore and study the different species of mangroves that make up the endangered mangrove forest habitat. The students will document each species of mangrove found in our coastal ecosystem as they compile their personal mangrove journal.

**Date: October 12, 2022**

**Activity: Plankton, Drifters of the Sea**

**Description:** Students will learn about the organisms we call plankton how they behave and what makes them so unique. The students will collect water samples and study the many organisms that are found within.

**Date: October 19, 2022**

**Activity: Analyzing Water**

**Description:** Students will learn about the PH and Salinity of the water and how it can affect the surrounding ecosystems. Different water samples from multiple locations will be examined to determine the difference between habitats.

**Date: October 26, 2022**

**Activity: Cruising the Coast**

**Description:** Students will embark on a kayak adventure to explore the vital mangrove ecosystem and other coastal habitats. Here they will encounter various marine that call these areas home. *Students will get wet during this activity! Please bring a change of clothes, towel, sunscreen, water shoes (NO CROCS, they come off in the water), a reusable water bottle, and lunch or snacks.*

To receive emails for class updates and supplemental material:

Please email RJ at [Argelio.Chaviano@miamidade.gov](mailto:Argelio.Chaviano@miamidade.gov)

*Please note scheduled activities are subject to change.*



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# Marine Conservation Homeschool 2021-2022

## December “Adapt to Survive”

**Date: December 7, 2022**

**Activity: Bioluminescence, Thriving in the Dark**

**Description:** Complete darkness, and the creatures that call it home. The class will explore these incredible organisms and the amazing adaptations they allow them to survive in these environments.

**Date: December 14, 2022**

**Activity: Fisheries and sustainable practices**

**Description:** In this class we will learn about fisheries and how they maintain a sustainable population of fish in the ocean. The students will also dissect the anatomy of the fish and the adaptations that let them survive in the sea.

**Date: December 21, 2022**

**Activity: Fishing, Catch and Release**

**Description:** One of the most serious threats to our oceans is overfishing. We will study the responsible fishing practices and later apply those skills on the water. *Students may bring a fishing rod if they have one, reusable water bottle, sun screen, hat, and lunch or snacks.*

**Date: December 28, 2022**

**Activity: Surveying the Ocean**

**Description:** While exploring the waters at the Deering Estate the students will learn about species surveys and how to find and identify the aquatic flora and fauna that can be found in our waters. *Students will get wet during this activity! Please bring a change of clothes, towel, sunscreen, water shoes (NO CROCS, they come off in the water), a reusable water bottle, and lunch or snacks.*

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## February “Forces of Nature”

**Date: February 1, 2023**

**Activity: Making a Storm!**

**Description:** Hurricanes! We will explore the storms that are so common in south Florida and how they form. The students will learn about the instruments that we use to predict these forces of nature and how they affect our coastal areas.

**Date: February 8, 2023**

**Activity: Erosion and Weathering**

**Description:** The impact of tropical storms is often devastating yet nature has found a way to withstand such forces. The class will look at the causes of erosion how it affects our coast and explore a mangrove forest which provide a natural buffer against said storms. *This is a DIRTY and WET activity. Please make sure to bring: a towel, change of clothes and shoes, water shoes, a full reusable water bottle, sunscreen and bug spray, and lunch or snacks.*

**Date: February 15, 2023**

**Activity: Harnessing the Power of Water**

**Description:** Water carries with it enormous force. The class will explore different types of renewable energies, and engineer devices that harness the power of nature.

**Date: February 22, 2023**

**Activity: Defend the Shore!**

**Description:** With the constant threat of hurricanes in south Florida, it falls to us to defend our coast! The students will design defenses to protect coastal areas with engaging engineering project.

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## Marine Conservation Homeschool 2021-2022

### April “Seas the Day”

**Date: April 5, 2023**

**Activity: Building a Boat**

**Description:** Students will engineer and build a boat as a team and test it in our bay area. The class will learn about the different types of water crafts that are commonly used in coastal communities.

**Date: April 12, 20223**

**Activity: Cast Away!**

**Description:** The students will learn about survival techniques that can be applied near coastal areas. The class will explore the edible and useful flora found in south Florida

**Date: April 19, 2023**

**Activity: Corals, Underwater Exploration**

**Description:** Corals provide food and shelter for a variety of sea creatures. The class will explore how coral reef function and snorkel some of our local sea grass beds. *Students will get wet during this activity! Please bring a change of clothes, towel, sunscreen, water shoes (NO CROCS, they come off in the water), a reusable water bottle, and lunch or snacks.*

**Date: April 26, 2023**

**Activity: Coastal Expedition**

**Description:** Kayaking south Florida’s coastal areas is the best way to experience the wildlife that call these habitats home. The class will explore that waterways that go through the mangrove forests. *Students will get wet during this activity! Please bring a change of clothes, towel, sunscreen, water shoes (NO CROCS, they come off in the water), a reusable water bottle, and lunch or snacks.*

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