

WE BRING THE SCIENCE TO YOU!

Our Educators are trained in Sunshine State Standards and they are experts at getting kids excited about science. Register for one of our engaging outreach programs and bring Mote's world-renowned science & research to your classroom!

Program Options:

- 45 – 60-minute hands-on program
- Classroom programs include an engaging lesson and activity led by a Mote Educator.
- This program is ideal for smaller groups for a more in-depth lesson.
- Max 30 students/program, 5 programs per day

Elementary

Classroom Program: Introduction to Corals

Grades: K-2

Description: Students will participate in an interactive, hands-on activity to gain a basic understanding of corals and their anatomy. Students will be taught by a Mote educator how to identify the main parts of a coral and their functions. Students will use this knowledge to build their very own coral polyp using craft materials provided by Mote.

Classroom Program: Saving the Coral Reefs

Grades: 3-5

Description: Students will learn about the importance of coral reefs and be introduced to Mote's coral reef restoration work. Students will simulate restoration work being done at Mote's International Center for Coral Reef Research and Restoration Center in the Florida Keys by creating their own fragments and following scientists' steps to outplant corals onto their own "coral reef".

Classroom Program: Corals Changing Color

Grades: K-5

Description: Where do corals get their color? How do they get food? What happens to corals as oceans continue to get warmer? In this interactive lesson, students will learn about the impacts of ocean warming on coral health. Students will create their own reef and practice real scientific methods on their coral reef creations.



Classroom Program: Coral Identification Investigation

Grades: 3-5

Description: Did you know corals have skeletons? Coral skeletons are very important to reefs – they help build the structure that many organisms depend on to live. In this interactive lesson, students will learn how corals grow their skeletons and how to identify common species on Florida’s coral reef. Students will gain experience using microscopes to observe coral skeletons and practice their new coral identification skills.

Classroom Program: Sharks & Buoyancy (STEM Activity)

Grades: 3-5

Description: How do sharks float? What is buoyancy? In this activity, students will learn all about sharks and how they have adapted to control their buoyancy. Students will complete a STEM challenge to create their own model with neutral buoyancy.

Classroom Program: Coral Reefs & Food Webs (STEM activity)

Grades: K-5

Description: Students will learn about food webs in a coral reef ecosystem. They will learn the importance of balance between the organisms in this fun STEM challenge.

Middle School

Classroom Program: Ocean Acidification

Grades: 6-8

Description: Students will learn about continued effects of global climate change on our oceans, focusing on the changing water chemistry resulting from excessive carbon dioxide absorption and sequestration. To further understand the nature of our changing oceans, students will engage in a water chemistry experiment investigating the effects of pH on marine organisms.

Classroom Program: Lionfish Dissection

Grades: 6-12

Description: In this introduction to invasive species in the Florida Keys, students engage in a hands-on interactive lesson to learn about the impacts of lionfish on Florida’s coral reef. Students will participate in a dissection where they will collect scientific data to report to local scientists.



High School

Classroom Program: Lionfish Dissection

Grades: 6-12

Description: In this introduction to invasive species in the Florida Keys, students engage in a hands-on interactive lesson to learn about the impacts of lionfish on Florida's coral reef. Students will participate in a dissection where they will collect scientific data to report to local scientists.

Classroom Program: Reef Reproduction

Grades: 9-12

Description: What is coral reef restoration? Why is genetic diversity important in reef restoration? How do scientists increase genetic diversity on coral reefs? Students will explore these answers in an engaging lesson provided by a Mote educator. Students will understand how reproduction can influence the survival of coral, and how breeding corals for success against stressors can positively affect coral reefs.

Classroom Program: Coral Health

Grades: 9-12

Description: How do corals get sick? This lesson dives in to the topics of coral health and diseases to paint a picture of the current status of Florida's coral reef. Students will learn how to identify major coral diseases and health issues, as well as gain a basic understanding of what scientists are doing to help.

Classroom Program: Technology in Science: Coral Restoration

Grades: 9-12

Description: During this program, students will learn how scientists monitor coral growth and study corals in future ocean conditions. They will be trained and gain skills using the same technology scientists use for coral restoration and research at Mote Marine Laboratory. Basic computer skills are a pre-requisite for this course. Computers are required.





IMPORTANT NOTES– Please read carefully

- Our mission is to present a fun & engaging educational program for your students. To facilitate that, we ask that you please provide adequate staffing for group management and supervision.
- Mote Marine Laboratory staff members may not be left alone with students at any time.
- To ensure programs are most relevant and enjoyable, we ask that participants are grouped by similar age/grade whenever possible.

Don't see the topic you're looking for? No worries! Our team can design a special program for your classroom.

Please contact keyseducation@mote.org for more information.

