



Dear Educator,

It's full S.T.E.A.M. ahead with the Ocean Rangers! Captain Sandy's Charities, the State of Florida, and the curriculum specialists at Young Minds Inspired present free, standards-based resources designed to teach your students about Florida's waters and equip them to help protect the plants and animals that live in them. In these activities, students will learn about maritime careers, ocean research technology, and Florida's coral reef system.

Please share this program with other teachers at your school. And tell us what you think of it by sending back the enclosed reply card or by visiting ymiclassroom.com/feedback-oceanrangers. We look forward to receiving your comments.

Sincerely,
Dr. Dominic Kinsley
Editor in Chief
Young Minds Inspired

Questions? Contact YMI toll-free at 1-800-859-8005, or by email at feedback@ymiclassroom.com.

Target Audience

Grades 1-3

Program Components

- This teacher's guide
- Three reproducible student activity sheets
- A classroom poster
- A reply card for your comments

Additional resources at ymiclassroom.com/oceanrangers:

- Additional activities
- A reproducible family letter (in English and Spanish)
- An interactive online quiz
- A teaching kit for grades 4-6
- A Florida standards chart
- A feedback form

Concepts and Skills

Engineering design	Creativity
Marine science	Writing
Problem solving	Reading comprehension

How to Use This Guide

Photocopy the activity sheets before displaying the poster and use the information that follows as a guide for implementing them. Visit the link above for a letter to send home to families.

About The Ocean Rangers

The Ocean Rangers are an eclectic, fictional crew of brave adventurers whose mission is to explore the waters of the world while protecting everyone and everything in them. Led by Captain Sandy, this intrepid team includes a mysterious benefactor, an AI robot, a daring first mate, a talented chef with an octopus helper, a clever young inventor, and a state-of-the-art vessel with all the technology and supplies the Ocean Rangers need to save the day.

Activity 1: All Hands on Deck

Read "About The Ocean Rangers" above to students. Then review and discuss the questions on the poster about the team's missions.

Pass out the activity sheet and discuss each person's role or job. Ask students to identify what they think each job is like and why each role is important. Have students complete the sentence prompt and draw a picture of the role they would choose. Once done, invite them to share their choices with the class.

Activity 2: Explore the Waters

Explain that scientists use vessels with special tools and technology to study the ocean, just like the Ocean Rangers' ship. Pass out the activity sheet and read it together. Have students work in teams to brainstorm tools or gadgets that they think would help the Ocean Rangers explore the waters and help them keep marine life (animals and plants) safe. Once done, have students share their ideas with the class and discuss how these tools can help the Ocean Rangers.

Activity 3: Set Sail for Adventure

Florida's ocean waters include a spectacular coral reef. Pass out the activity sheet and do Part 1 together or have older students complete it on their own.

Explain that some of our actions can harm the coral reef and the marine life that lives there. For Part 2, help students brainstorm ways their families can help protect Florida's coral reef. For example: throw trash into proper bins on the beach, use reef-safe sunscreen, follow safe boating practices, reduce the use of lawn and garden fertilizers, and avoid using disposable plastic items such as shopping bags — they contain microplastics that pollute water. Conclude by having students complete and sign the pledge. Post their pledges on a bulletin board to inspire others to support Florida's coral reef.

Check Out the Interactive Quiz!

Visit ymiclassroom.com/oceanrangers for an online quiz for students and additional activities to extend the learning.



All Hands on Deck

Each member of the Ocean Rangers has an important role to play. The crew works together to make their missions succeed.

Captain Sandy

Captain of the ship. Operates the ship and leads the crew.



D.I.N.G.H.Y.

Second Officer. AI robot who maintains the ship's equipment and technology.



Keel

Apprentice. Learns from Captain Sandy and invents things to help the missions.



Chef Cocci

Chef and Medical Officer. Creates healthy meals for the crew, treats injuries, and speaks Spanish.



Jeremy Diver (JD)

First Officer. Second in command and helps the captain.



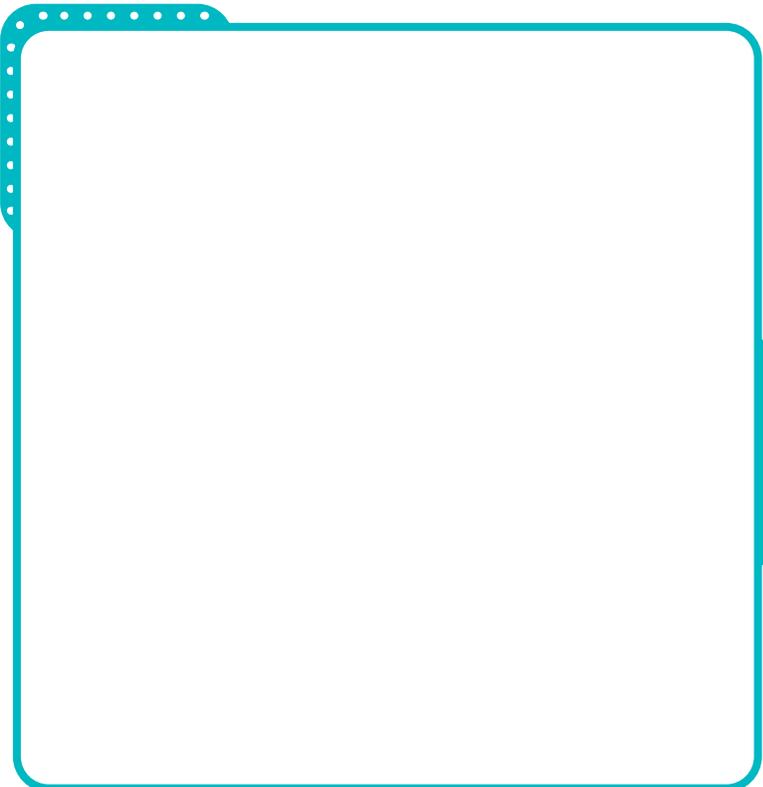
Pulpo

Assistant to Chef Cocci. As an octopus, his eight arms are helpful.

Which role, or job, would you like to have? Complete the sentence below. Then draw a picture of yourself in that role.

If I worked on an ocean exploration vessel like the Ocean Rangers, I would like to be the

because _____



Explore the Waters

The Ocean Rangers' vessel is a state-of-the-art ship. It has tools and technology that the team uses to explore and help keep the ocean waters safe, just like real ocean scientists do. For example, the Ocean Rangers have:

- computers that test water
- cameras that take pictures of marine life
- robots that collect samples from deep in the ocean
- mini vessels for travel underwater
- special tools to help rescue marine animals and more!



Invent It!

Keel likes to invent things. Imagine that you must help him create a tool to help the Ocean Rangers on their mission to protect the ocean waters and everything in them. What would you create? Would you make a tool that could help them rescue an animal, collect ocean water for studying, or watch fish and plants underwater? Describe your idea below.

Tool name: _____

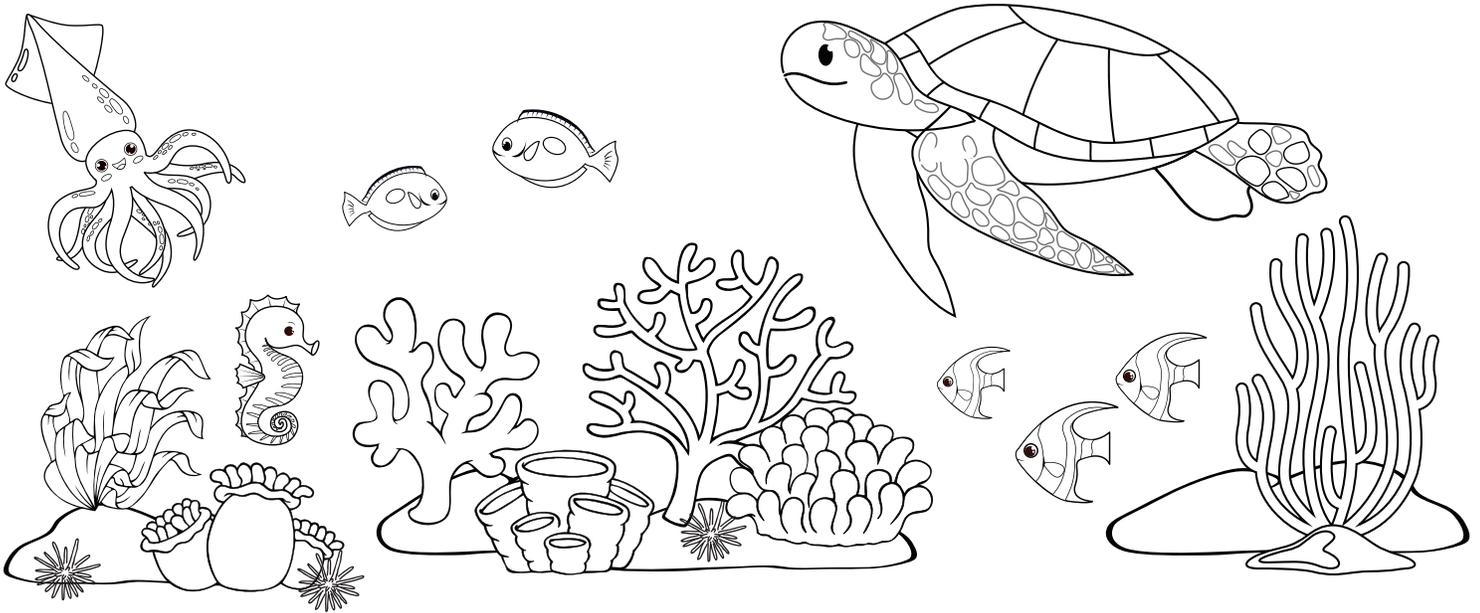
What it does: _____

What it looks like (Draw it below.)



Set Sail for Adventure

Part 1: Florida's coral reef is the only coral reef in the continental United States. It is home to more than 6,000 types of marine life. Follow the directions below as you learn more about the coral reef.



1. Florida's coral reef is more than three hundred and fifty miles long. Write that number here:

2. Sea stars (starfish) live in the coral reef. Draw two sea stars on the reef.
3. Sea urchins, which look like spiky balls, help keep the water clean by eating algae. Circle the sea urchins. How many are there? _____
4. Green turtles depend on the coral reef for shelter and food. Color the sea turtle green.
5. There are more than 40 types of coral in the reef. Coral is known for its bright colors. It can be shades of brown, green, blue, red, and purple. Color the coral reef with these colors.

Part 2: Brainstorm ways to help protect the coral reef. Then complete the sentence below.

I pledge to help the Ocean Rangers save Florida's coral reef by





Dear Parents and Caregivers,

With a free classroom program from Captain Sandy's Charities, the State of Florida, and curriculum specialists at Young Minds Inspired, our class has set off on an adventure with the Ocean Rangers to explore Florida's waters and learn how to help protect our oceans and marine creatures, while also learning about real-life marine careers. Ask your child to share what they have learned.

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Continue the exploration and learning at home!



- Talk about ways you can protect the ocean and local waters as a family. For example:
 - Use cloth shopping bags instead of plastic ones, as turtles and other sea life often mistake plastic bags for food.
 - Adopt a sea turtle or other marine creature online and follow their journey through Florida's waters.
 - Clear storm drains before and after storms and pick up litter at the beach.
 - Consider joining a group that helps to protect Florida's diverse waters.
- Explore books about Florida's waters and unique animal habitats.
- Check out the Ocean Rangers' fun online quiz as a family to learn more about Florida's waterways and wildlife, and how we can help keep them healthy and flourishing. See ymiclassroom.com/oceanrangers.





Join The Ocean Rangers on their missions!



Exploring a Shipwreck

What role would you play? What might you find?



Studying Our Waters

What technology and equipment can help scientists research and explore our oceans and the plants and animals in them?



Helping Marine Life

How can you help protect marine life?

