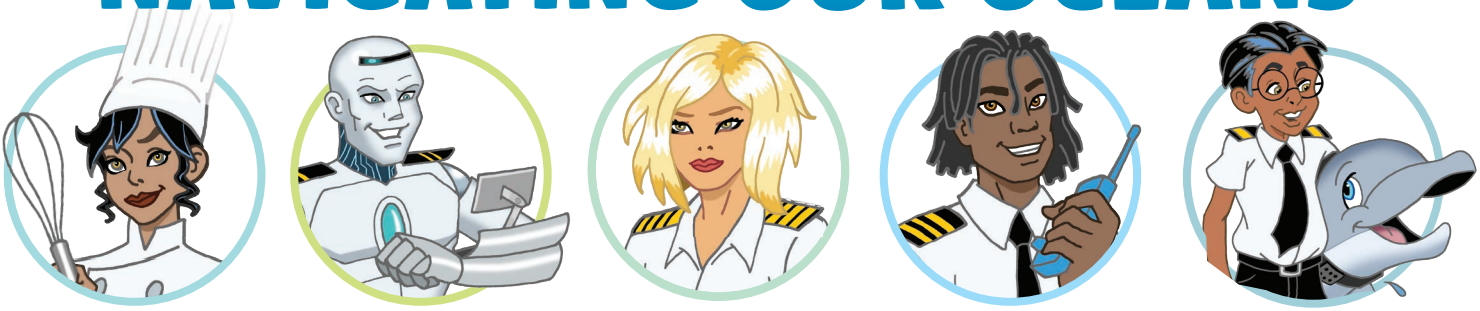
OCEAN RANGERS

NAVIGATING OUR OCEANS



Dear Educators,

Dive into discovery with the Ocean Rangers! Captain Sandy's Charities, the State of Florida, and the curriculum specialists at Young Minds Inspired invite you and your students to explore our amazing oceans with these free, standards-based activities.

Students will locate the world's oceans on a map, discover some of the many ways people depend on and enjoy the ocean, and also learn about careers focused on studying and protecting our oceans. Please share this program with other teachers and tell us what you think about it at **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 4-6

Components

Available at **ymiclassroom.com/oceanrangers:**

- Activities for Grades 4-6
- Activities for Grades K-3
- A standards chart
- An online feedback form

Concepts and Skills

Oceans and human life	Map reading and research
Marine careers	Critical thinking and analysis
Conservation and environmental awareness	Communication and creative expression

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 they need to save the day.

How to Use This Guide

Photocopy the activity sheets and use the information that follows as a guide for implementing them. Activities may be completed as a whole class, in small groups, or individually.

ACTIVITY 1: Mapping Our Oceans

To start this activity, invite students to name the world's oceans. Explain that scientists actually recognize one interconnected global ocean, commonly divided into five major basins that we know as the Arctic, Atlantic, Indian, Pacific, and Southern Oceans. These ocean basins differ in size, location, depth, and temperature, and collectively cover more than 70 percent of Earth's surface.

Pass out the activity sheet and review the instructions. Review students' labeled maps for accuracy. For Part 2, project the NOAA site for students to complete the chart.

Answers: Part 2: Pacific, Atlantic, Indian, Southern, Arctic (largest to smallest)

To conclude, have students locate and circle Florida on their maps. Then project a map of Florida or use Google Maps (**google.com/maps**) to locate your school's town and the nearest ocean coastline. Have students predict the distance from your town to the ocean, then calculate it. Discuss why the results may differ across Florida.

ACTIVITY 2: Oceans and Us

Ask the students to brainstorm some of the ways people use or depend on the ocean. Encourage them to think beyond obvious connections, like food and recreation. Ask: *What products or services might depend on the ocean?*

Explain that the ocean plays an important role in people's lives in ways we may not always notice. Distribute the activity sheet and review the instructions. Challenge students to think critically about why the ocean connections matter and decide which they believe is most important.

ACTIVITY 3: On the Job!

Ask students: *If people depend on the ocean for transportation, food, recreation, and medicine, what kinds of jobs might depend on the ocean too?* Invite students to brainstorm careers that involve working on, near, or with the ocean. Ask: *How could having a healthy ocean affect these jobs?*

Pass out the activity sheet and go over the instructions. Have students share which careers best match their interests. When done, invite them to share their answers and logos and slogans with the class.

There's more online!

Check out **ymiclassroom.com/oceanrangers** for additional activities, a digital game, and a family letter to extend the learning to the home.

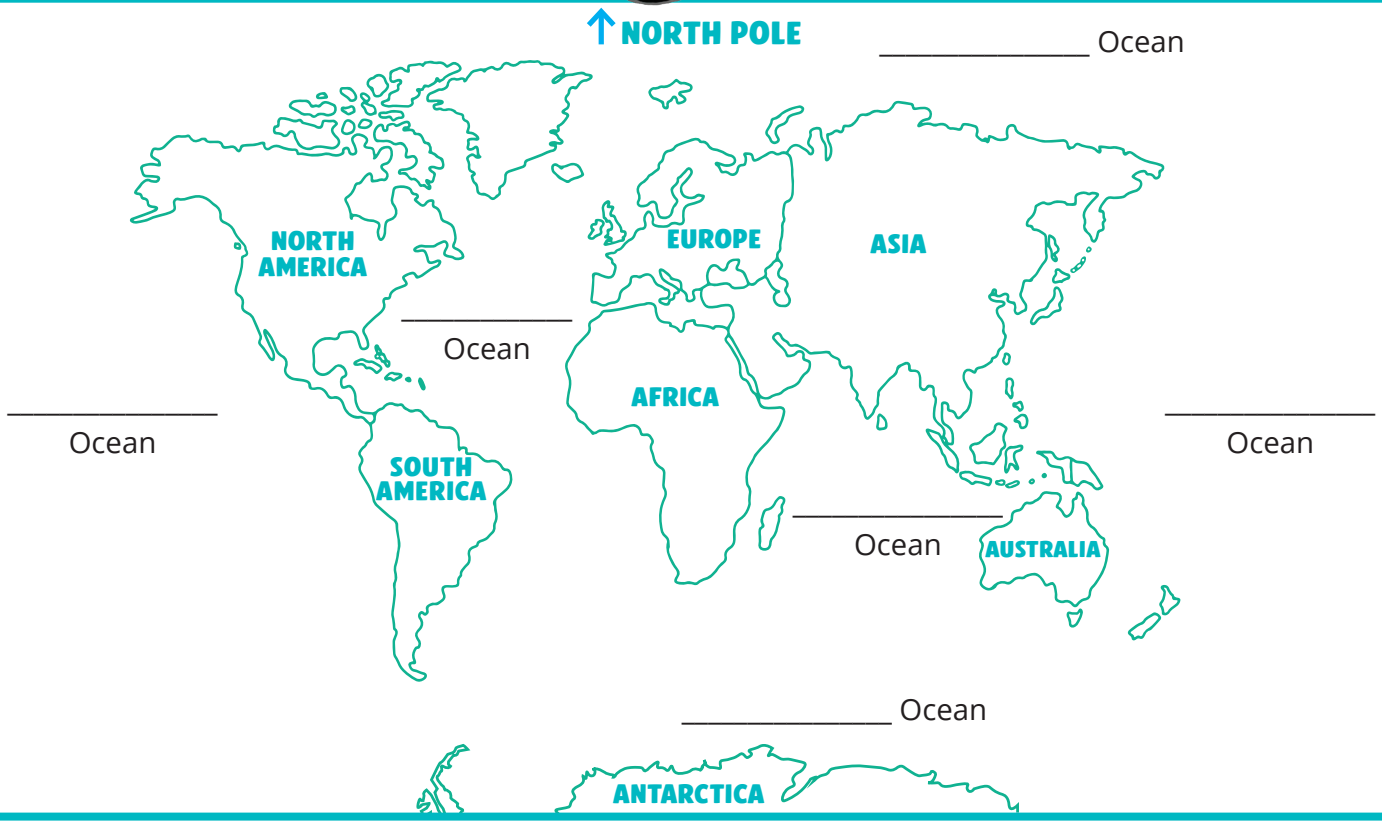
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Reproducible

Mapping Our Oceans



Keel is the youngest member of the Ocean Rangers. Captain Sandy and team are teaching him about the ocean and how to protect everyone and everything in it.



Part 1: Keel needs your help to finish cataloging the world's oceans. Use the clues below to find and label each ocean on the world map.

1. The **Pacific Ocean** lies between Asia and Australia to the west and North and South America to the east. It is the largest ocean basin on Earth. Hint: The Pacific Ocean appears on both sides of this map.
2. The **Atlantic Ocean** separates North and South America from Europe and Africa.
3. The **Indian Ocean** is bordered by Africa to the west, Asia to the north, and Australia to the east.
4. The **Arctic Ocean** surrounds the North Pole and lies north of North America, Europe, and Asia.
5. The **Southern Ocean** surrounds Antarctica and connects the southern portions of the Pacific, Atlantic, and Indian Oceans.

Part 2: Next, Keel needs to research the approximate surface area (in square miles) of each ocean. Visit **www.noaa.gov/jetstream/**ocean to complete the chart below. Rank the oceans from 1 (largest) to 5 (smallest).

Ocean Name	Surface Area	Rank
Arctic Ocean		
Atlantic Ocean		
Indian Ocean		
Pacific Ocean		
Southern Ocean		

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Oceans and Us



Join Pulpo as he dives deeper into our connection to the ocean!

Part 1: Read the paragraph below.

Hi friend! Pulpo here! You might already know that the ocean provides us with food and plenty of places to swim, surf, boat, fish, and have fun. But our connection to the ocean goes much deeper than that. People around the world depend on the ocean for fish, shellfish, seaweed, and other foods. Cargo ships travel across oceans carrying products we use every day, including clothing, shoes, toys, electronics, cars, furniture, fruit, and more. The ocean also provides places for recreation and tourism, supporting jobs in coastal communities. And here's something that might surprise you: Scientists study ocean plants and animals for natural compounds that can be used to develop new medicines. From the food we eat and the products we buy to the medicines that help keep us healthy, we are connected to the ocean in many ways.

Part 2: Now think like an Ocean Ranger. Answer the questions below using details from the paragraph to support your answers.

1. Why are healthy oceans important to people?

_____

_____

_____

_____

_____

2. Which of these connections do you think is most important and why: transportation, recreation, food, medicine?

_____

_____

_____

_____

_____

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DISCOVER YOUR TRUE NORTH
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On the Job!



Ahoy, Ocean Rangers! Captain Sandy here. The ocean provides food, carries goods around the world, gives us places to explore and enjoy, and supports communities and businesses. It also provides many exciting careers.

Part 1: Read about these ocean- or marine-related jobs and then answer the questions below.

- **Marine meteorologists** study weather and ocean conditions to help keep people safe.
- **Commercial fishers** catch seafood for people to eat.
- **Aquaculture farmers** raise fish, shellfish, and other aquatic species.
- **Marine biologists** study ocean life and ecosystems
- **Ship captains** safely navigate vessels carrying people or goods across the water.
- **Marine ecotour guides** help people experience and learn about ocean wildlife and habitats while encouraging responsible ways to enjoy them.

Each of these professionals depends on a healthy ocean, and each can play a role in protecting it. Choose a role and think about the ocean from that professional's point of view. Why would protecting the ocean matter to you, the work you do, and the people or wildlife that depend on you?

_____

_____

Part 2: Time to set out on an Ocean Rangers' mission. For the marine career you selected above, create an action plan showing how someone in that career could help protect the ocean.

1. **Identify the problem:** What ocean-related issue might affect your career?

_____

_____

2. **Take action:** What could you do to help address the problem?

_____

_____

3. **Make an impact:** How would your actions benefit people, wildlife, or the ocean?

_____

_____

Part 3: On the back of this page, create a logo and slogan encouraging people to protect the ocean from the perspective of your imagined marine career.

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DISCOVER YOUR TRUE NORTH

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