

Miguel

the Marine Biologist



Miguel the Marine Biologist

Copyright © 2017 by Rozzy Learning Company, LLC.

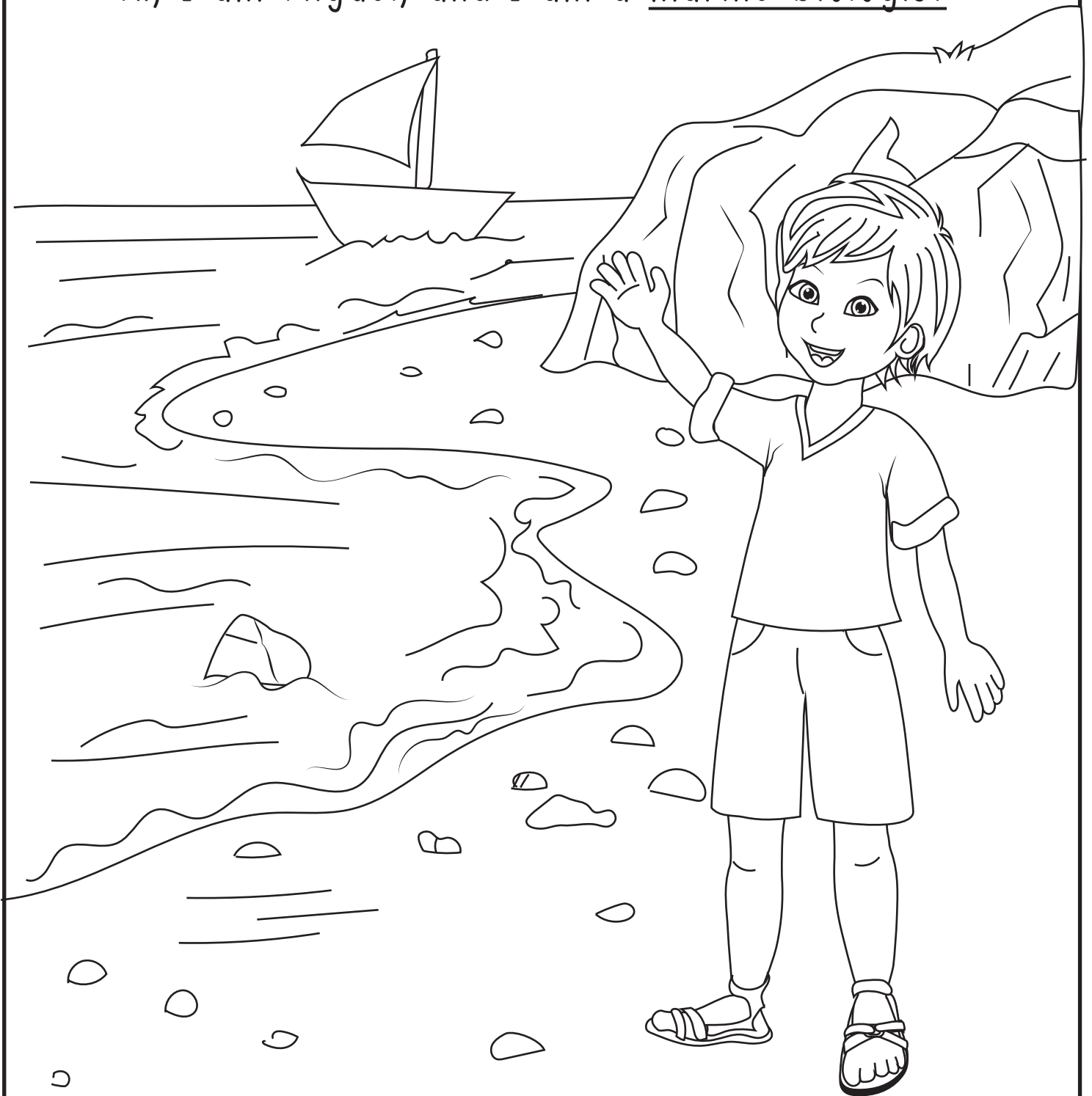
All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system, without the prior written permission of Rozzy Learning Company, unless such copying is expressly permitted by federal copyright law.

Created in the United States of America

Rozzy Learning Company
4240 Duncan Avenue, STE. 200
St. Louis, MO 63110

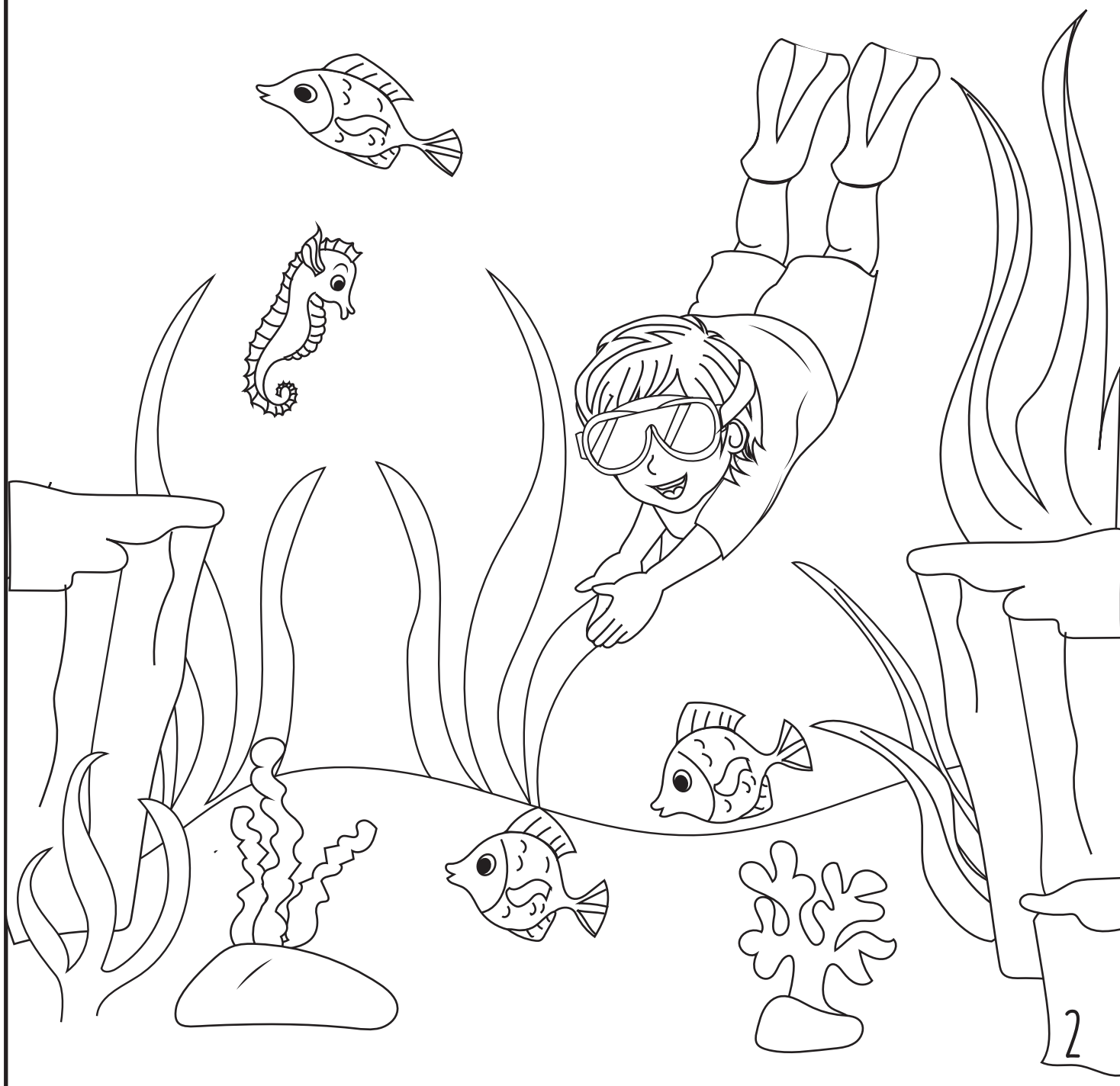
www.rozzylearningcompany.com

Hi, I am Miguel, and I am a marine biologist.

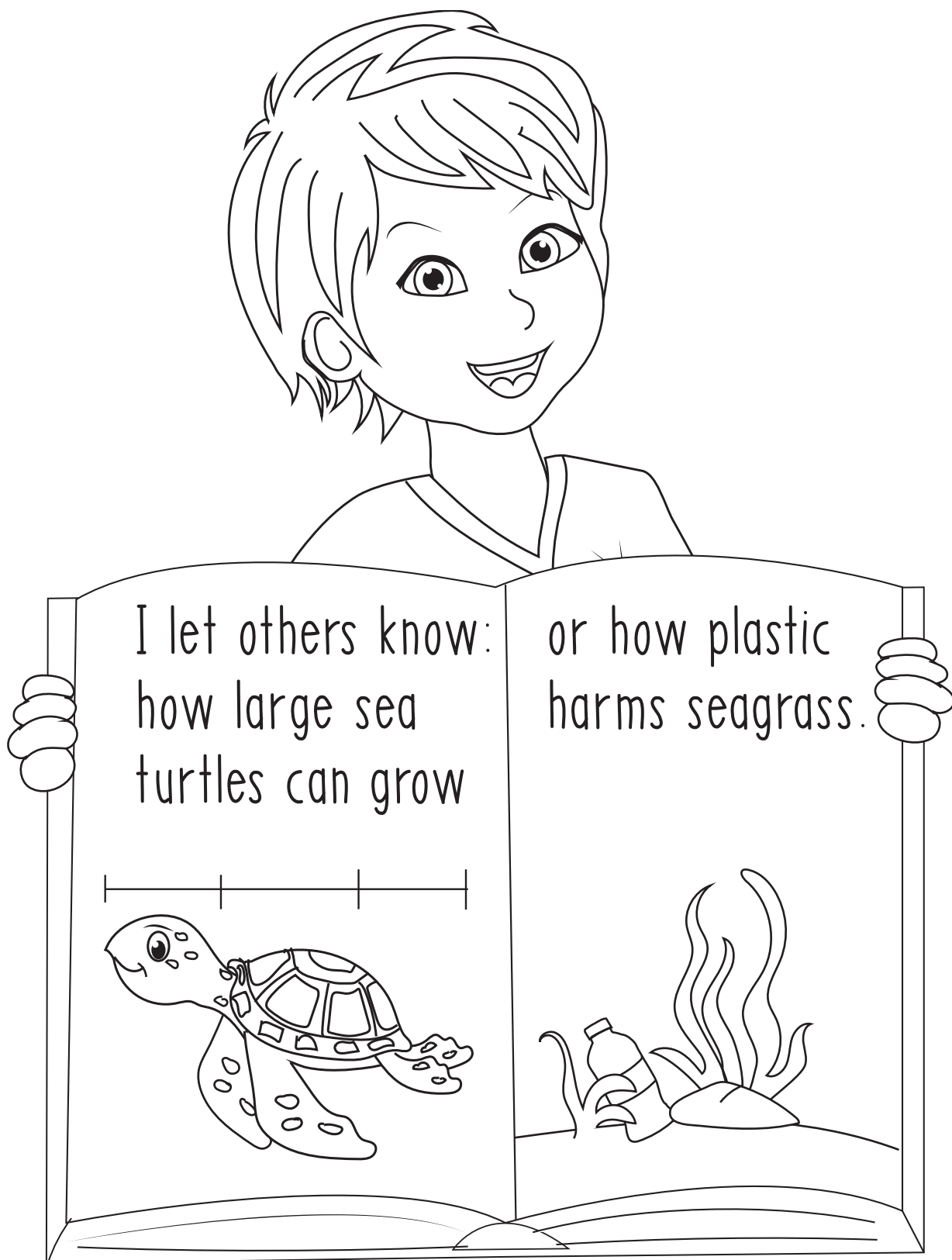


A marine biologist is a scientist that studies and protects animals and plants that live in the ocean. 1

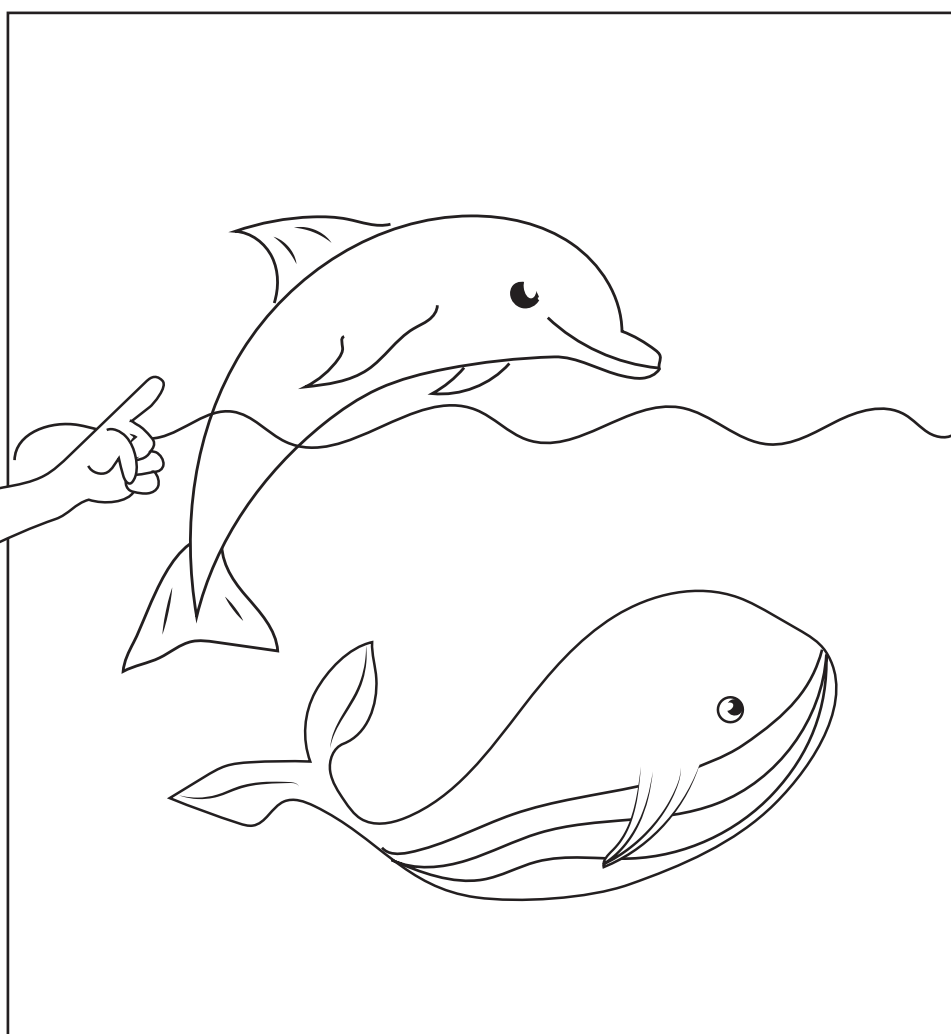
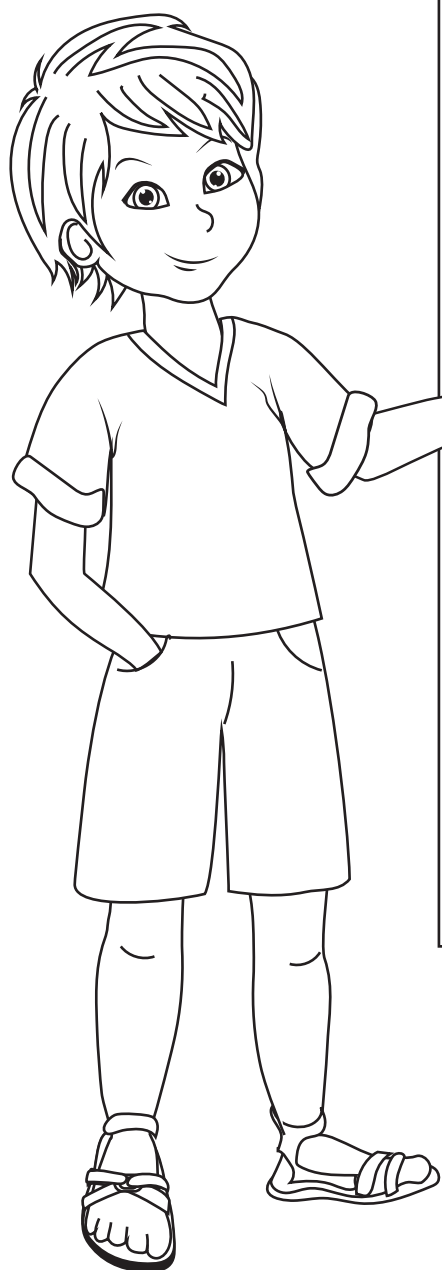
As a marine biologist, I solve problems like
how to save sea horse habitats
or how to study fish that live deep in the ocean.



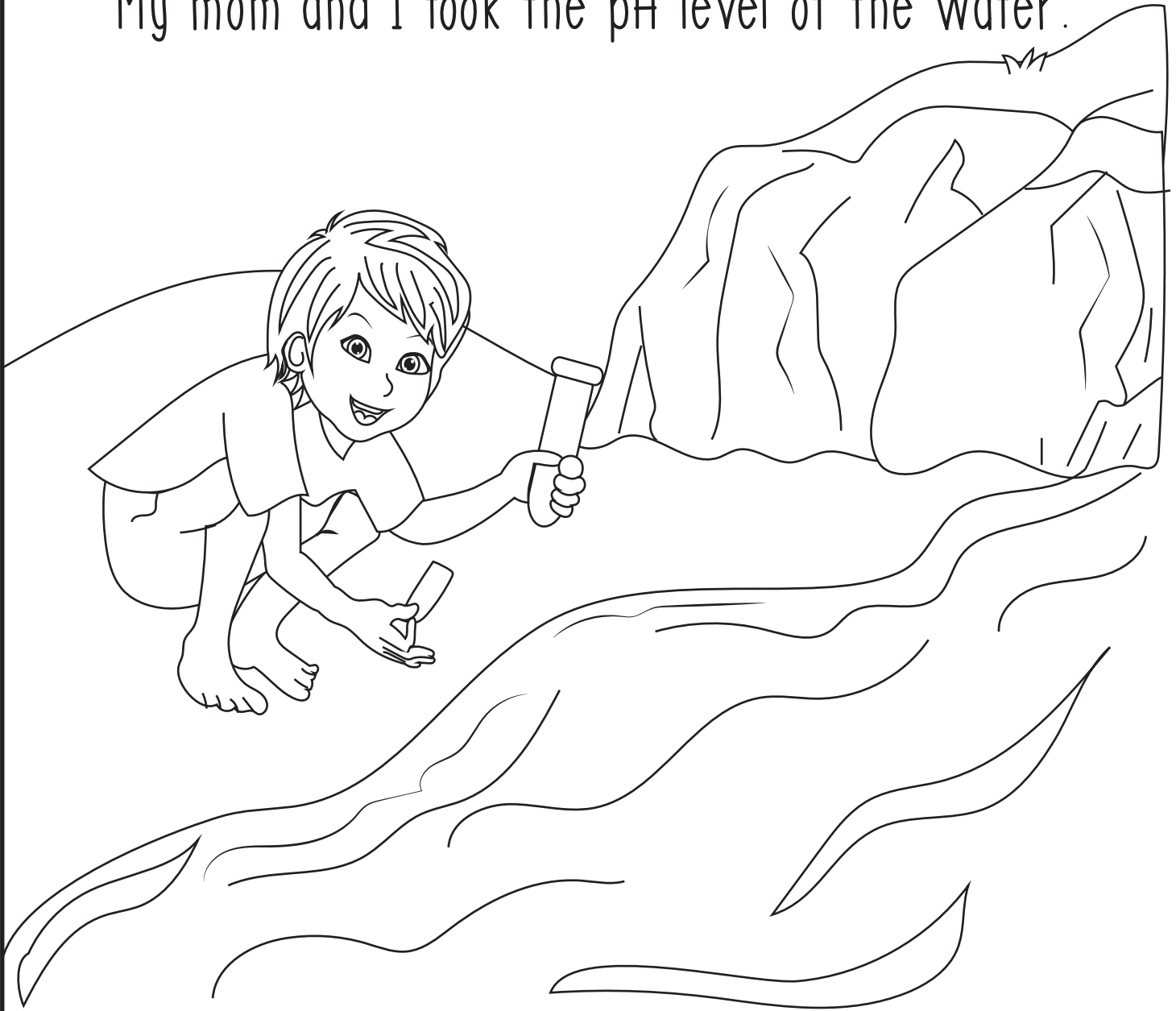
I also share my findings with others.



I wanted to be marine biologist because
I love doing science experiments and learning
about sea animals, like dolphins and whales.

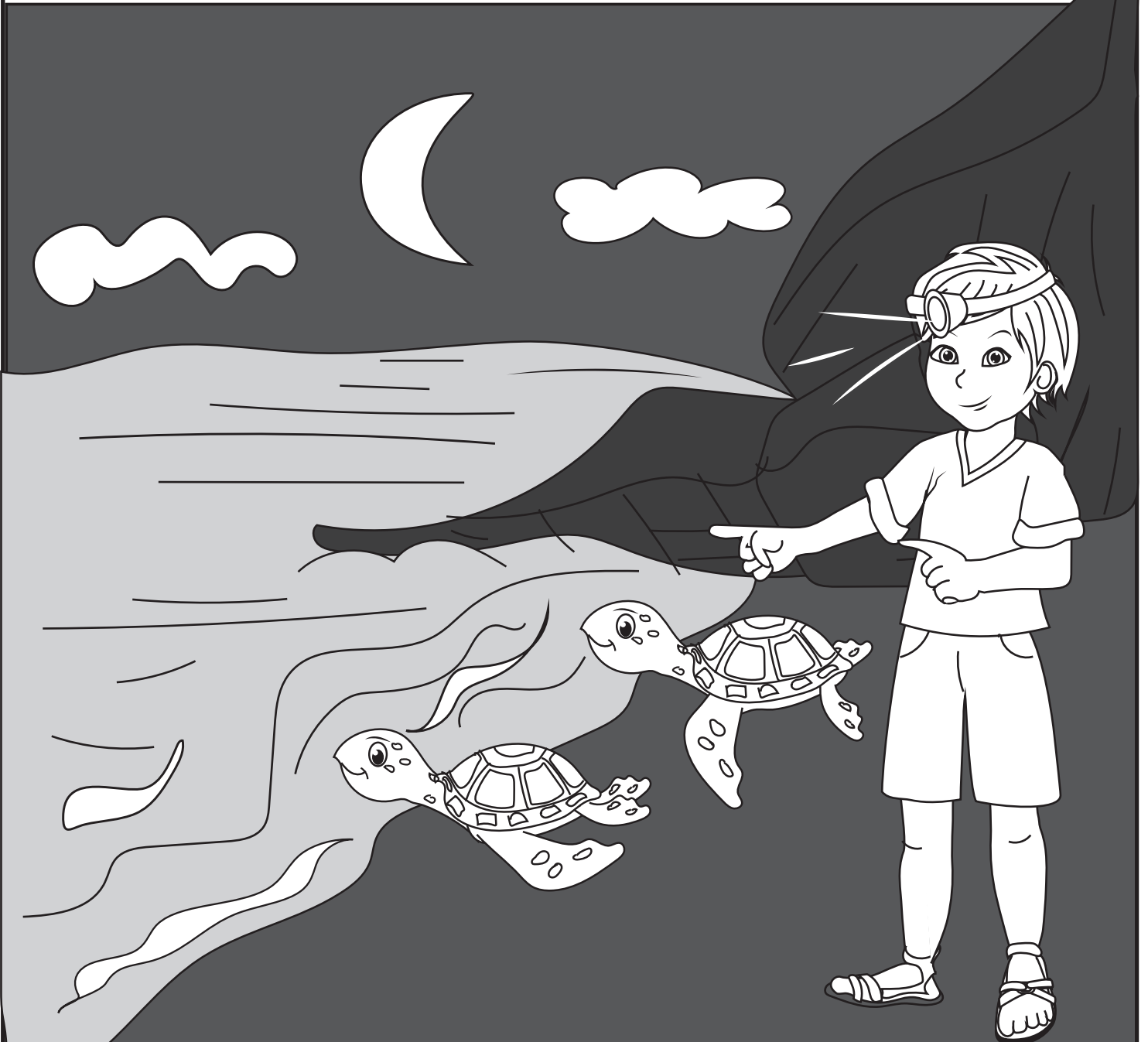


My first science experiment was testing water quality in a lagoon near my house. My mom and I took the pH level of the water.



The pH level is a number that tells us if there is pollution in the water and if it is safe for fish to live there.

Adventure 1: Tracking Sea Turtles



This week, I am researching sea turtles. I observe them at night because the turtles only come to shore when it's dark out. I wear a headlamp so I can see the turtles!

I work with the turtles at night because they lay eggs on the shore when it is dark outside.



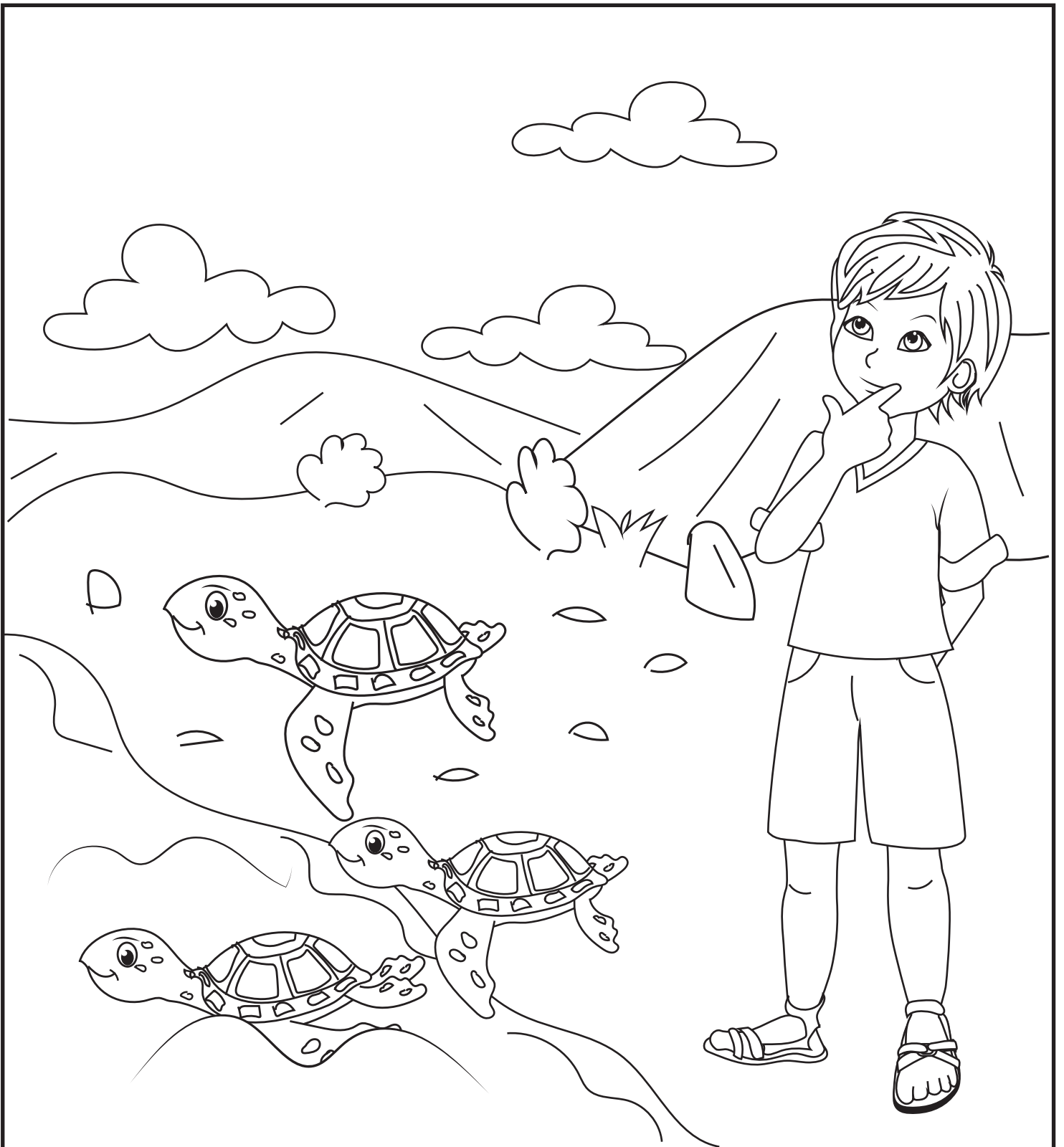
Can you help me think about why turtles might come to the shore at night?

Write or draw your idea below:





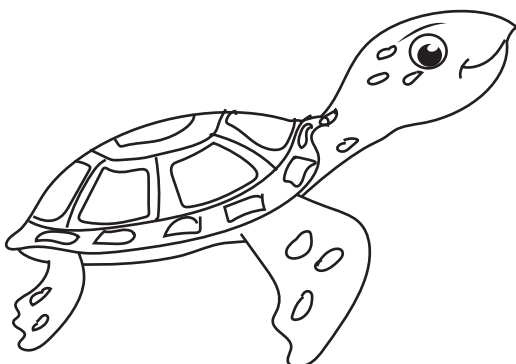
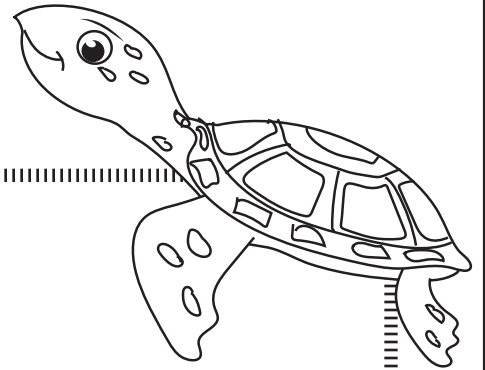
When turtles come to shore, it's my job
to measure how big they are.



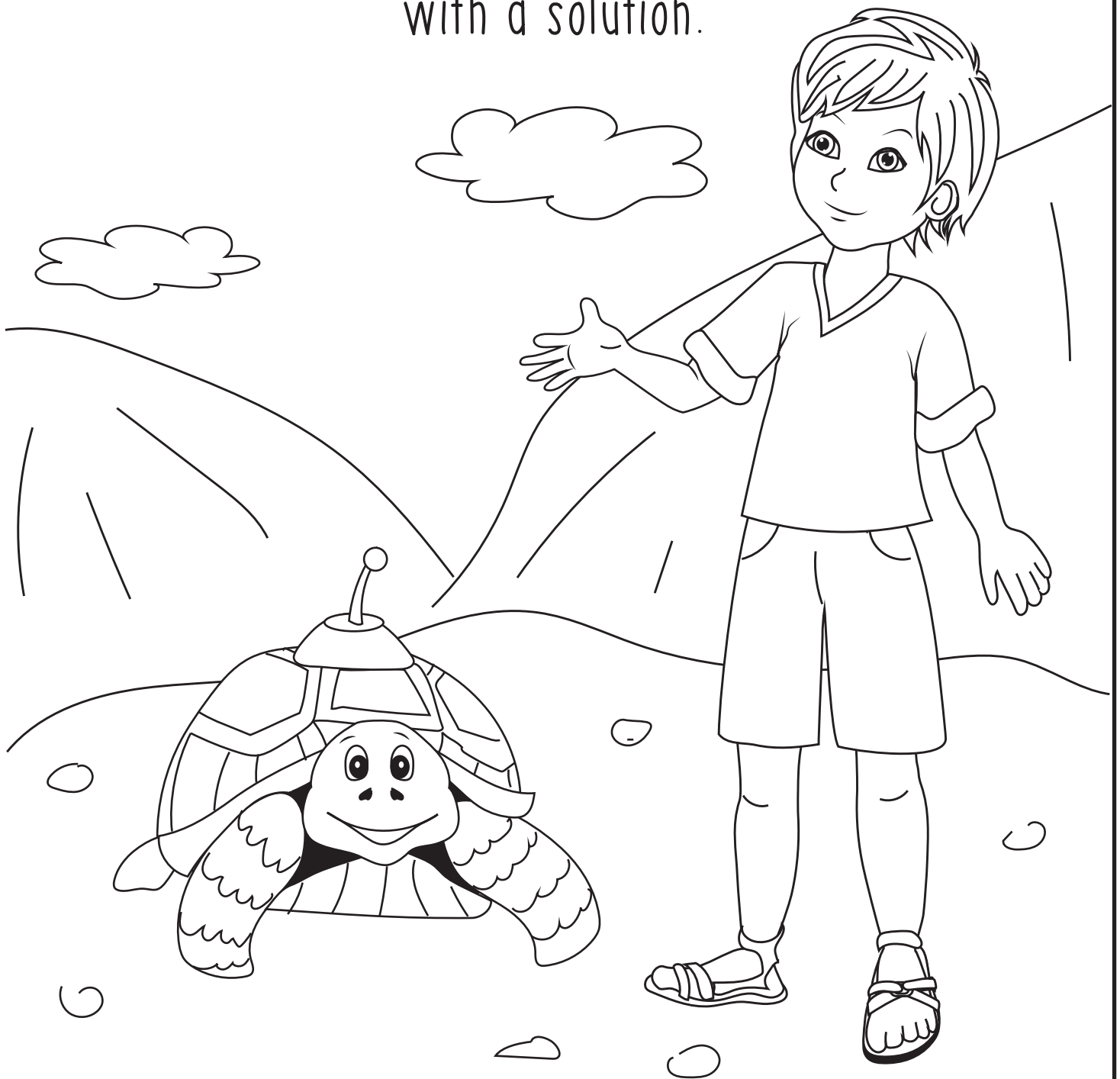
After I measured a few turtles, I realized I did not know how I would keep track of the turtles and identify them.

Do you have an idea for how we can remember
which sea turtle is which?

Think like a marine biologist and write down
your ideas.

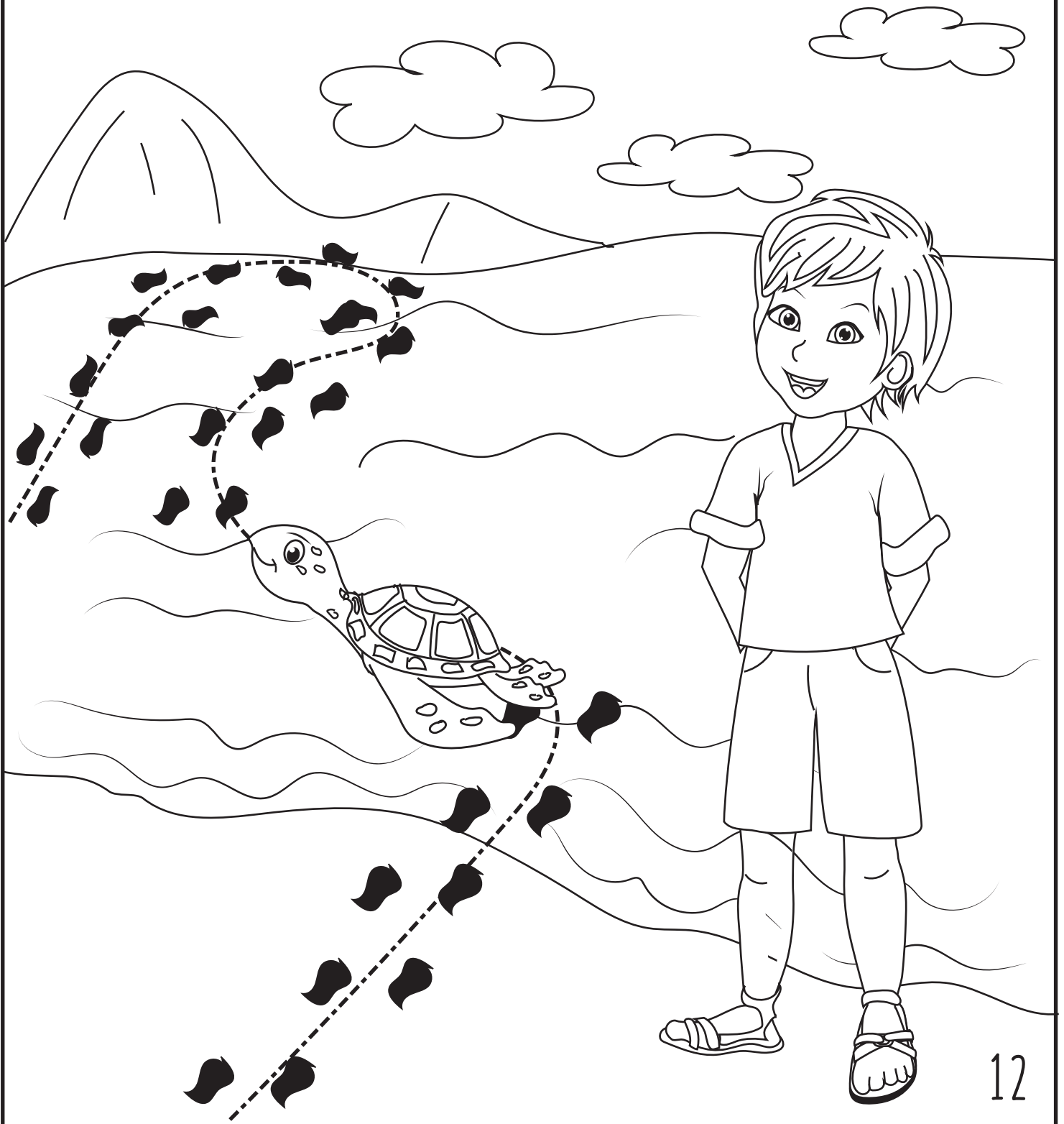


I talked with other biologists, and we came up with a solution.

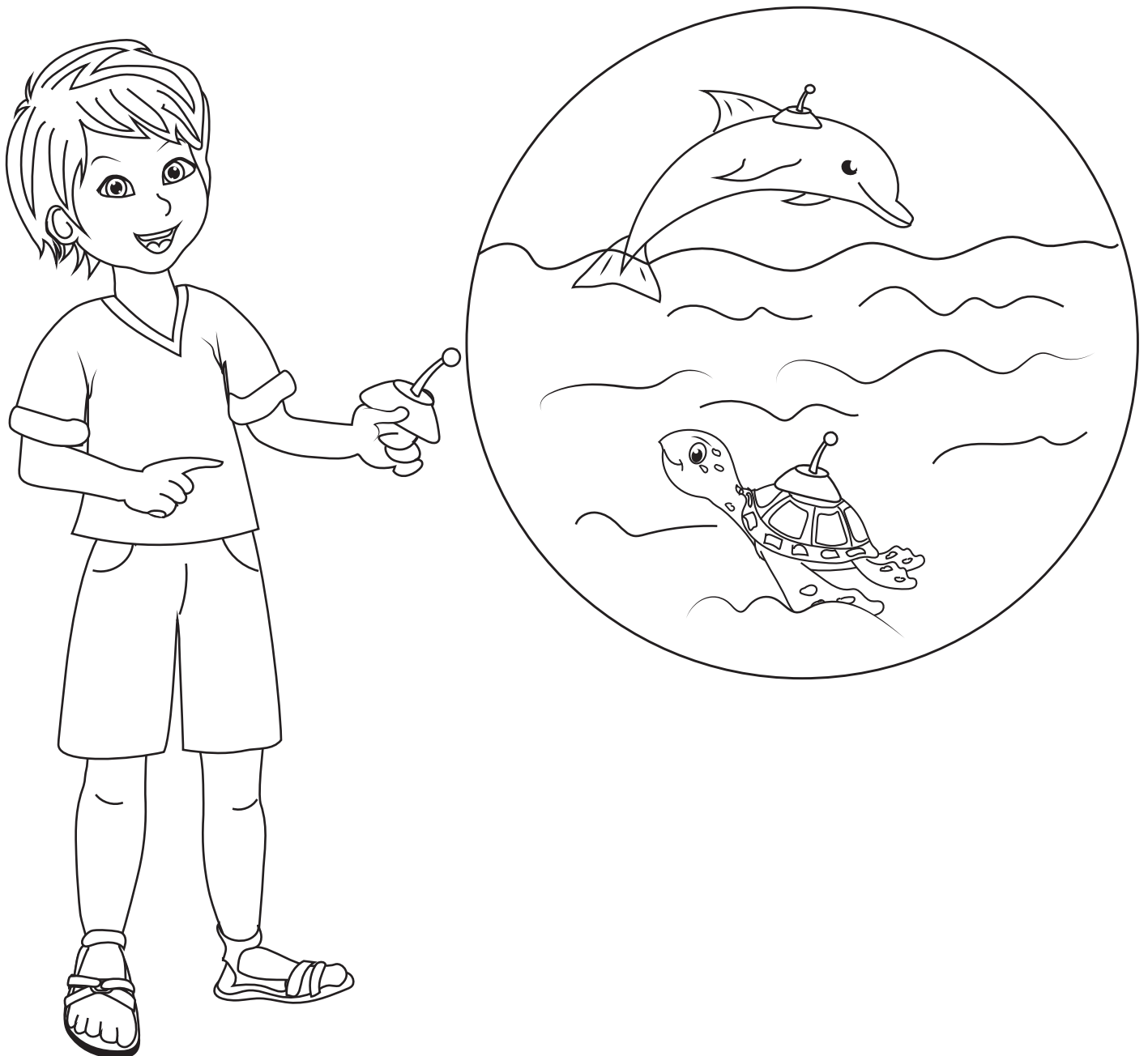


We can put computer chips on the turtles' backs to identify them and even track where they swim.

Every turtle will have a chip. The chips will be linked to a computer so I can follow the turtles as they travel in the ocean.

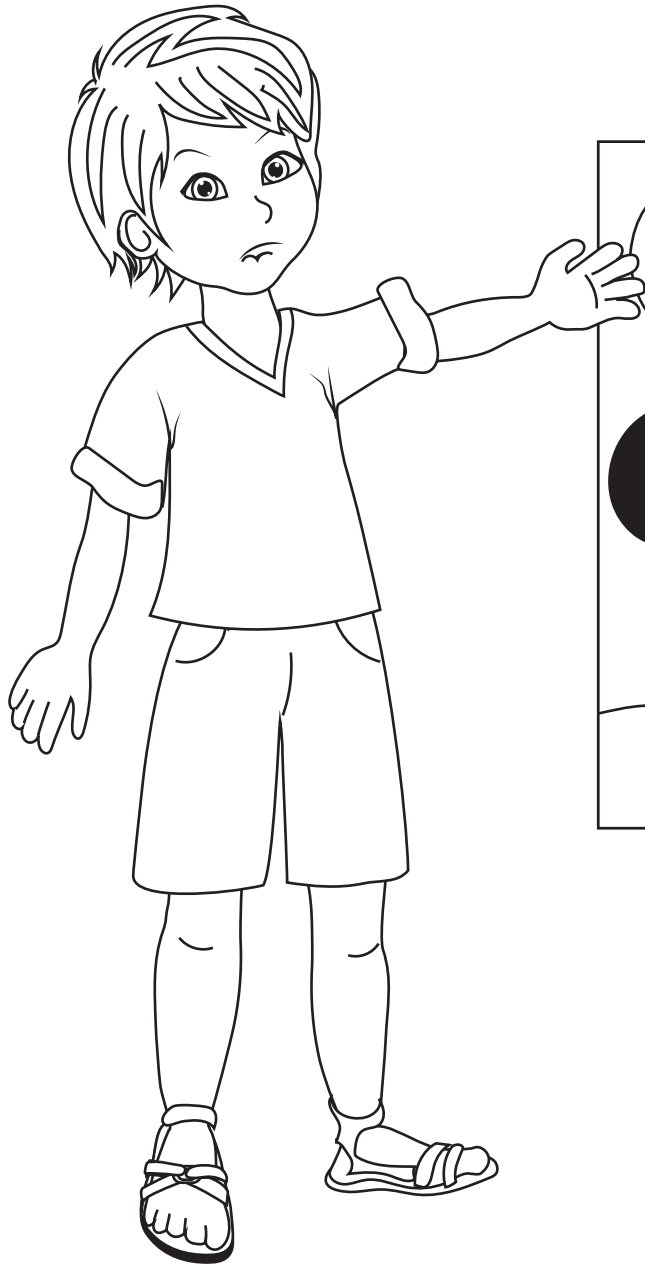


Marine biologists all over the world now use chips to track dolphins, turtles, and other sea animals.



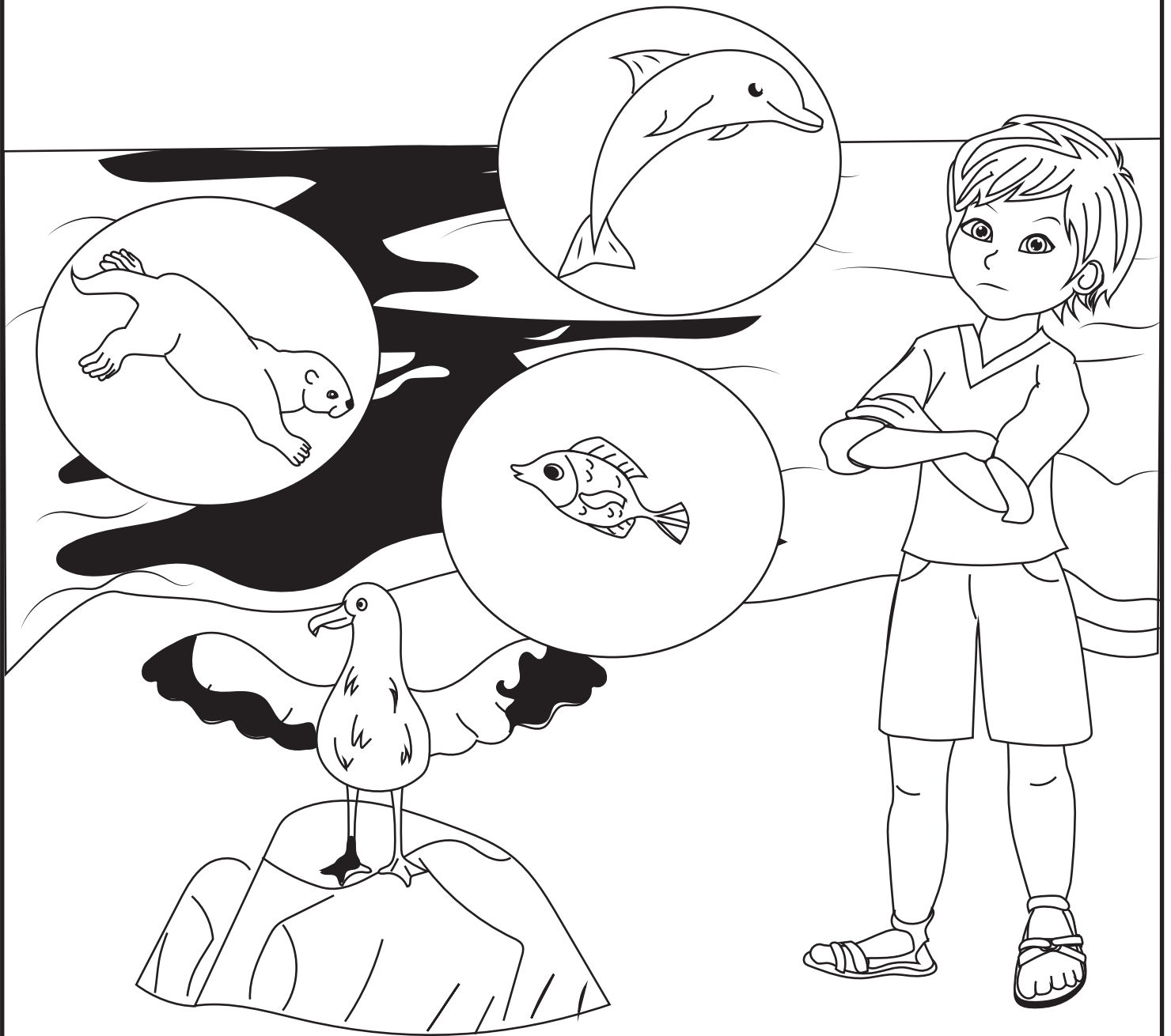
Adventure 2: Cleaning Up an Oil Spill

Are you ready for our next marine biology adventure?



This week, I am collaborating with scientists and engineers who are cleaning up an oil spill.

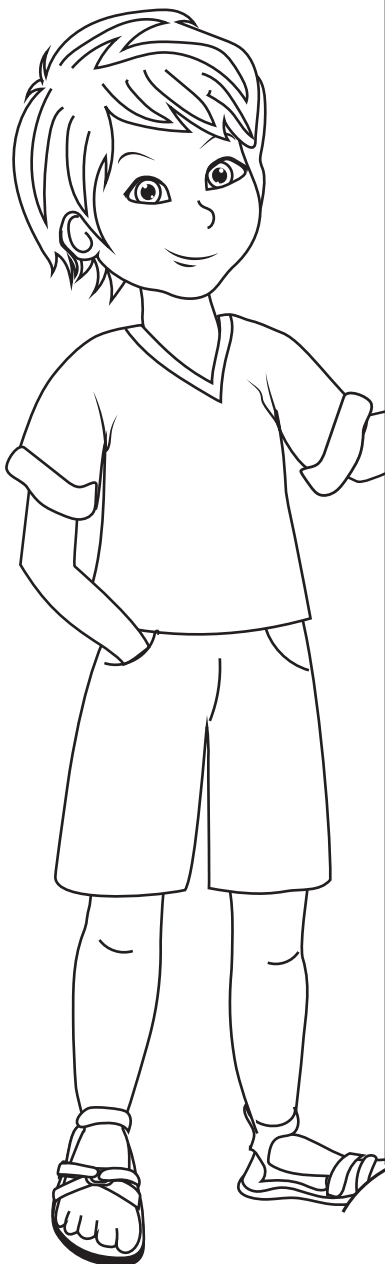
An oil spill happens when oil leaks into the ocean.



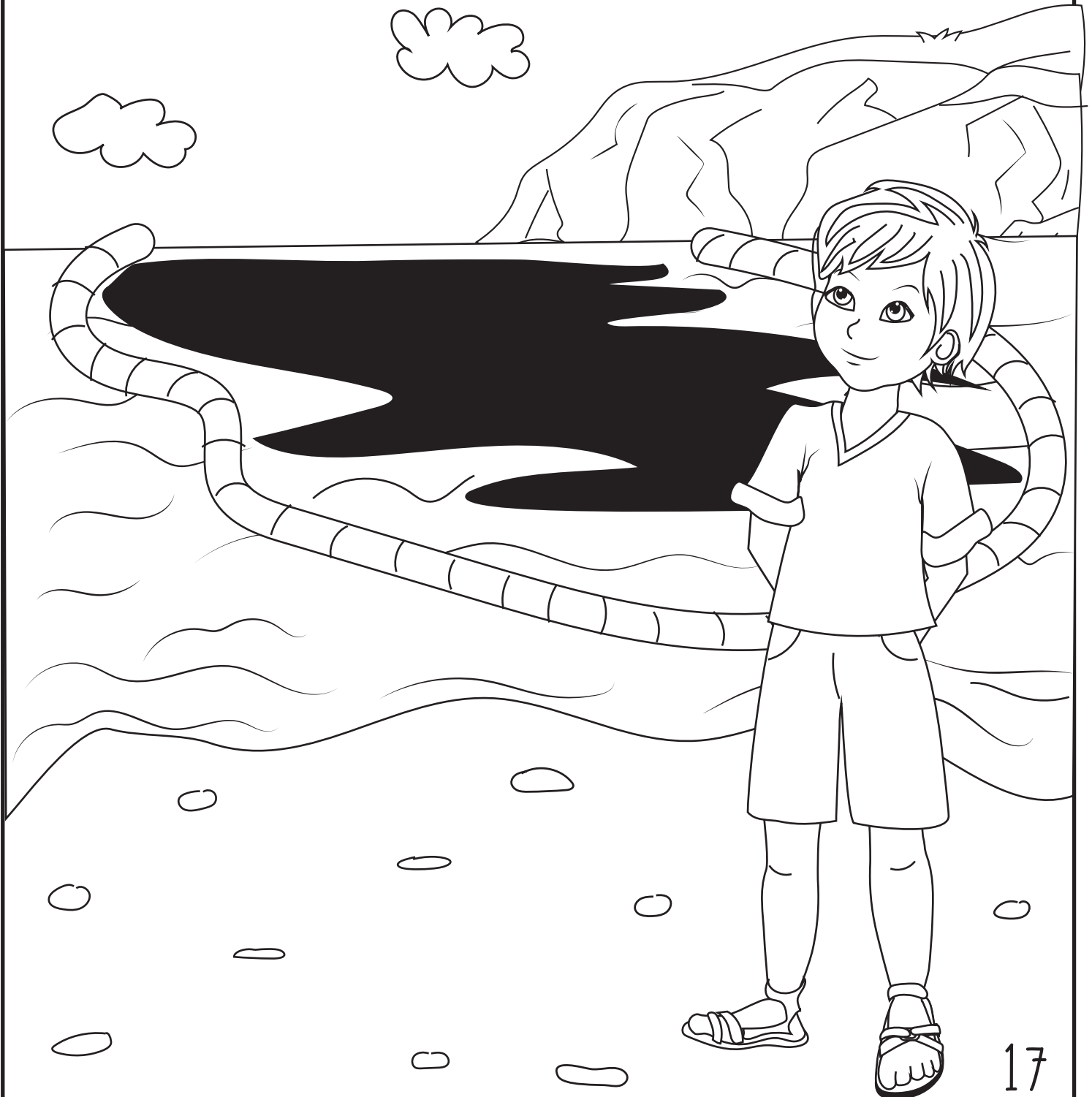
Oil spills are dangerous for water and marine animals.
When oil gets on a sea otter's body, the fur
cannot keep them warm in cold water.

When I get to the site of the oil spill, I discuss with the scientists and engineers how to remove the oil from the water.

Can you help us think of ideas of how to remove the oil?
Write or draw your ideas below!

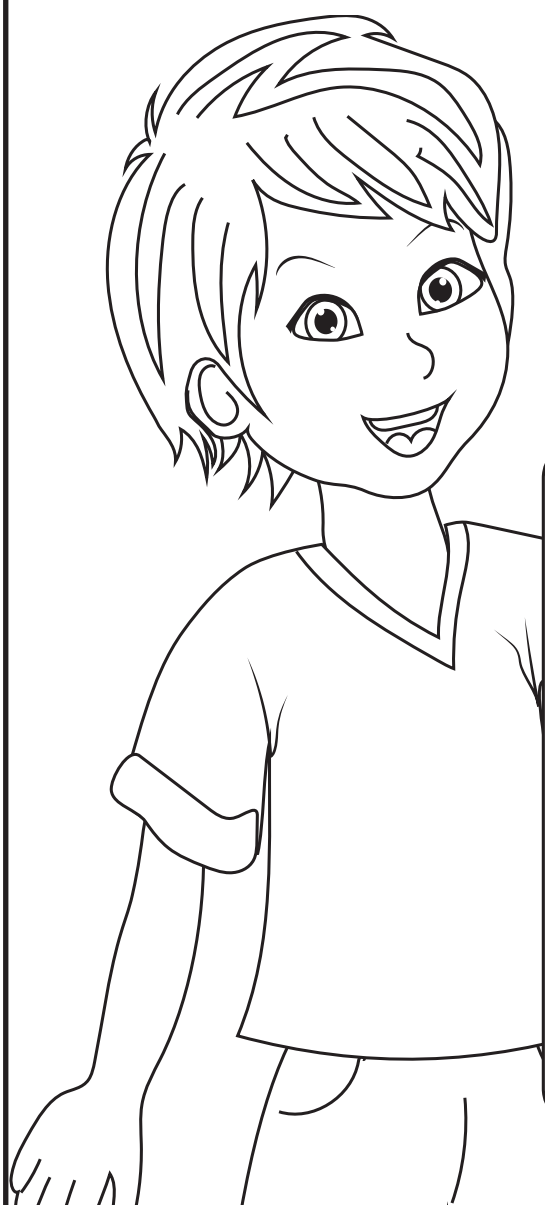


We decide to build an oil containment boom.
Containment booms are large tubes that float
in the water and stop the oil from spreading.



Ready to make your own containment boom?
Use art and building supplies to build a
containment boom that floats in the water.

See how long you can make
your containment boom!
Write how long it was!

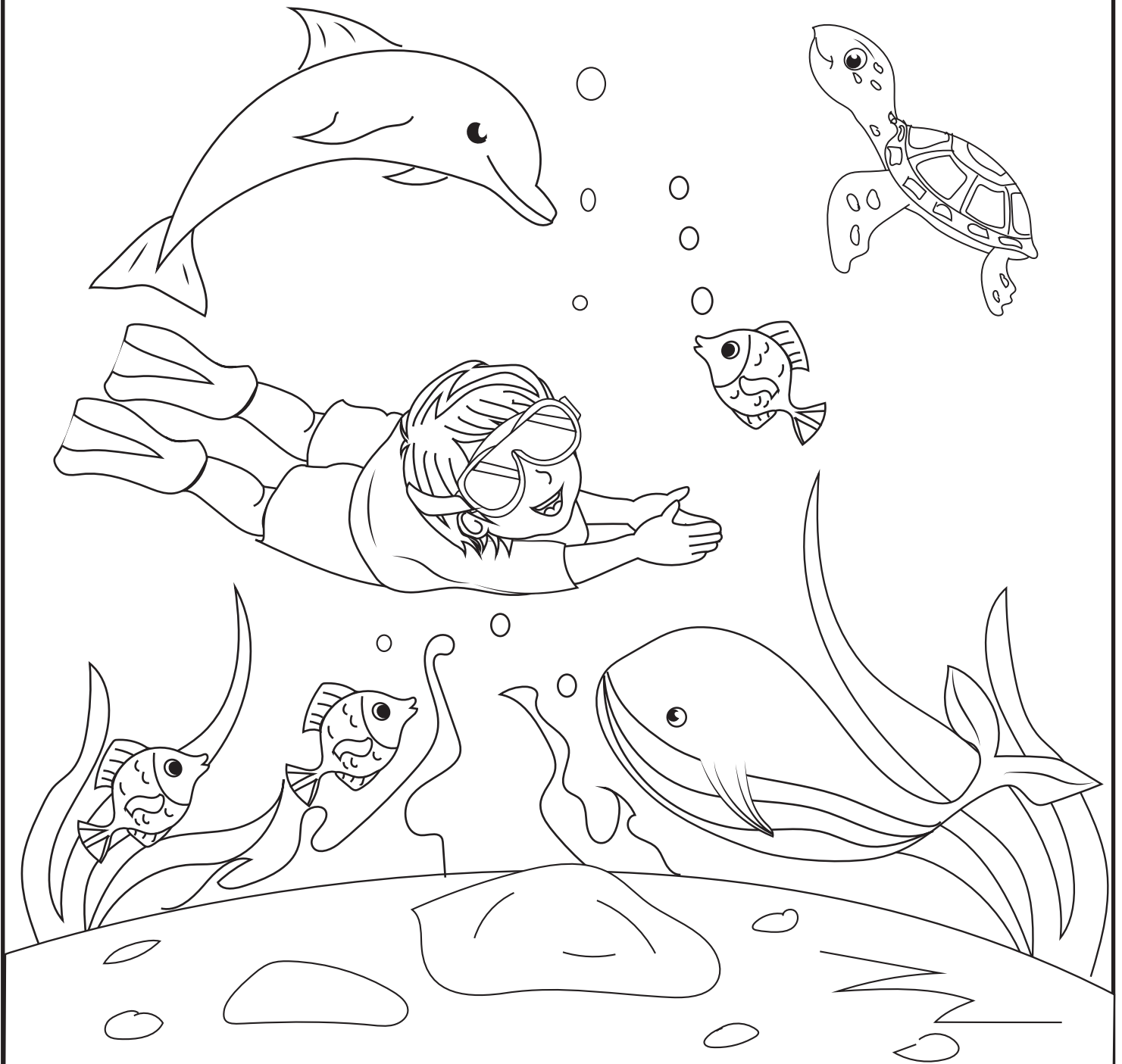


After stopping the oil from spreading, it is time for us to clean the oil off the animals.



We carefully rub the animals' feathers and fur with soap and water to remove all the oil. The birds immediately spread their wings when all the oil is off of them.

Thanks for helping me protect marine animals!



Being a marine biologist is a rewarding job.
I get to work with engineers and scientists
to solve problems. I also get to help animals!

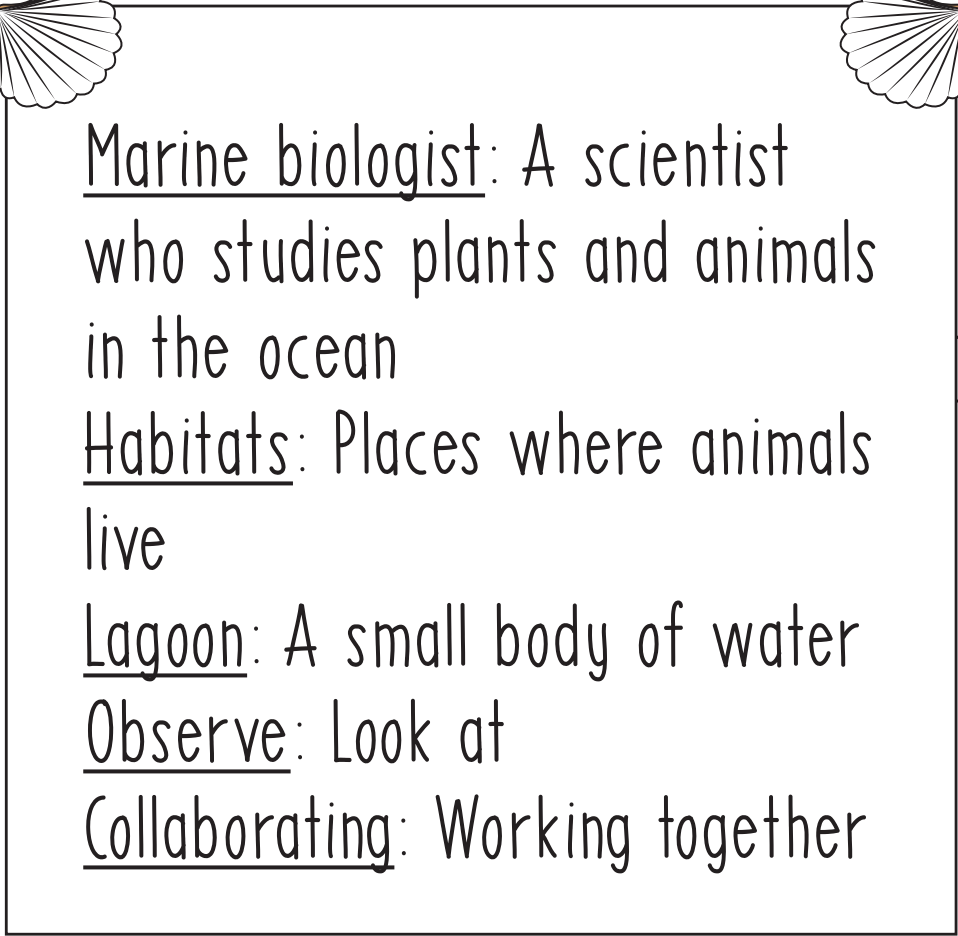


My favorite part of being a marine biologist is traveling all over the world to places like Costa Rica and Australia. Anywhere there is water, you will find a marine biologist!

I became a marine biologist by going to college and studying biology, animals, and other ocean life, like plants.



Here are some of the words you may have learned while reading:



Marine biologist: A scientist who studies plants and animals in the ocean

Habitats: Places where animals live

Lagoon: A small body of water

Observe: Look at

Collaborating: Working together

