

Chasing the Ebb & Flow of the Tide

an adventure and activity book

Storyline and illustrations by Theresa Stacy-Ryan.

Written by Mary Stacy Orr.

The Chase Series

There are ten books in the Chase Series
based on the characters found in the fun adventure,
“Chasing the Moon and the Morning Star.”

Chasing the Ebb & Flow of the Tide is based on Location Ten.

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Dedication

This story is dedicated to kids everywhere who are learning to deal with being bullied. My hope is that this little story brings some insight and strength to those who are experiencing this, young or old.

Acknowledgments

This book was a collaborative effort with many in my Circle: Kathy who jump-started me on it, Mary who is driven to write these now, Naymar who was going through this experience at the time, Tess who brought the rainbow to it, Ava, Finn, Donovan, Jovie, Emmett, Antoinette, Elizabeth, Renée, and Leslie – because they care.

This book belongs to

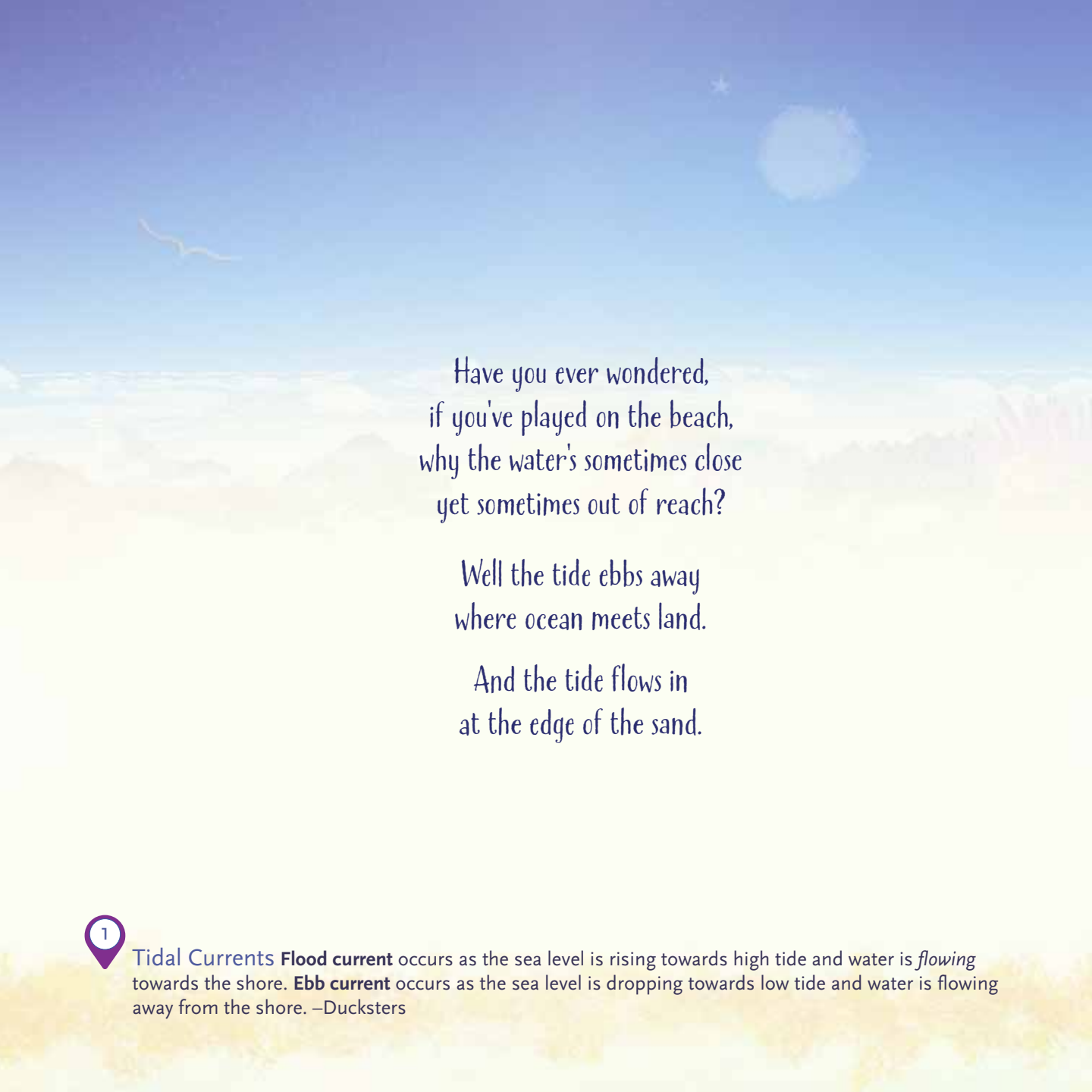
Be ready as we follow the tide on the Pacific Coastline!

Supplemental Materials

Watch videos, play games, and print your own activities for Chasing the Ebb & Flow of the Tide at littlelionlighthouse.com/ceft

[term] are terms and explanations that might be of interest to you, the reader, that you can share about the scene with your listener.

NOTE: References are included online at littlelionlighthouse.com/ceft.



Have you ever wondered,
if you've played on the beach,
why the water's sometimes close
yet sometimes out of reach?

Well the tide ebbs away
where ocean meets land.

And the tide flows in
at the edge of the sand.



Tidal Currents **Flood current** occurs as the sea level is rising towards high tide and water is *flowing* towards the shore. **Ebb current** occurs as the sea level is dropping towards low tide and water is flowing away from the shore. –Ducksters



The Moon calls the ocean
with the tide's ebb and flow...

2

The Moon's Role in Tides The moon's gravity pulls on the Earth to create a tidal force. This causes Earth – and its water – to bulge out on the side closest to the moon and the side farthest from the moon (high tides). When you're not in one of the bulges, you experience a low tide. This cycle happens twice every day. –NOAA's SciLinks The moon's phase determines the highest and lowest tides through the year. When the moon is full, there are extra-high high tides, and very low, low tides



...revealing its creatures
Oh, what a show!

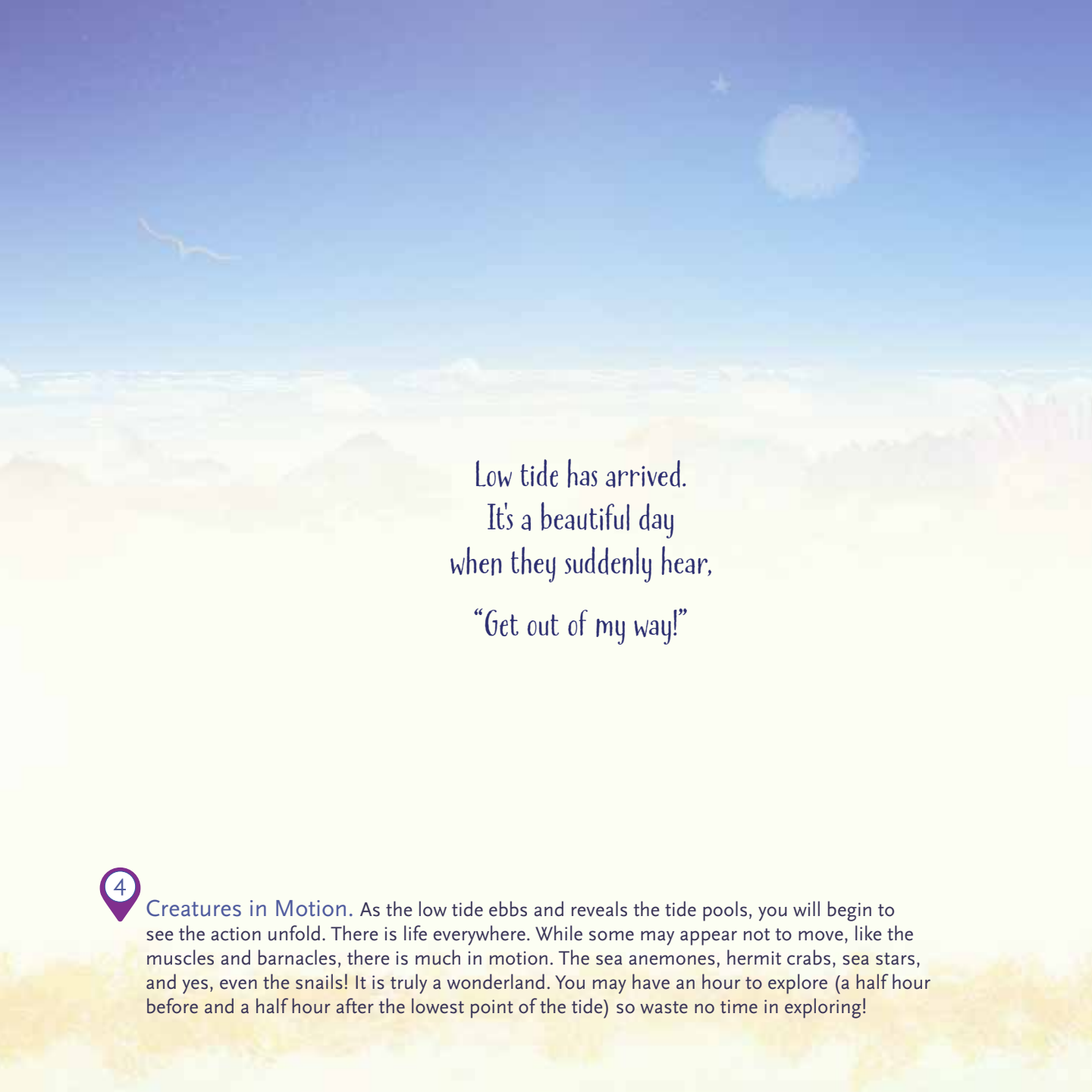
Hidden creatures come out
when the sea's at low tide.
Ocean life greets the air
when the sand gets so wide.

3

Tidal Pools are marine ecosystems that thrive in what is known as the *intertidal zone*—the area between high and low tide. Because the area is alternately covered and uncovered by the ocean throughout the day, plants and animals must be able to survive both underwater and out in the air and sunlight. They must also be able to withstand crashing waves. —National Geographic



Sea stars stretch out their arms.
Anemones wiggle.
Hermit crabs scurry.
All so happy, they giggle!



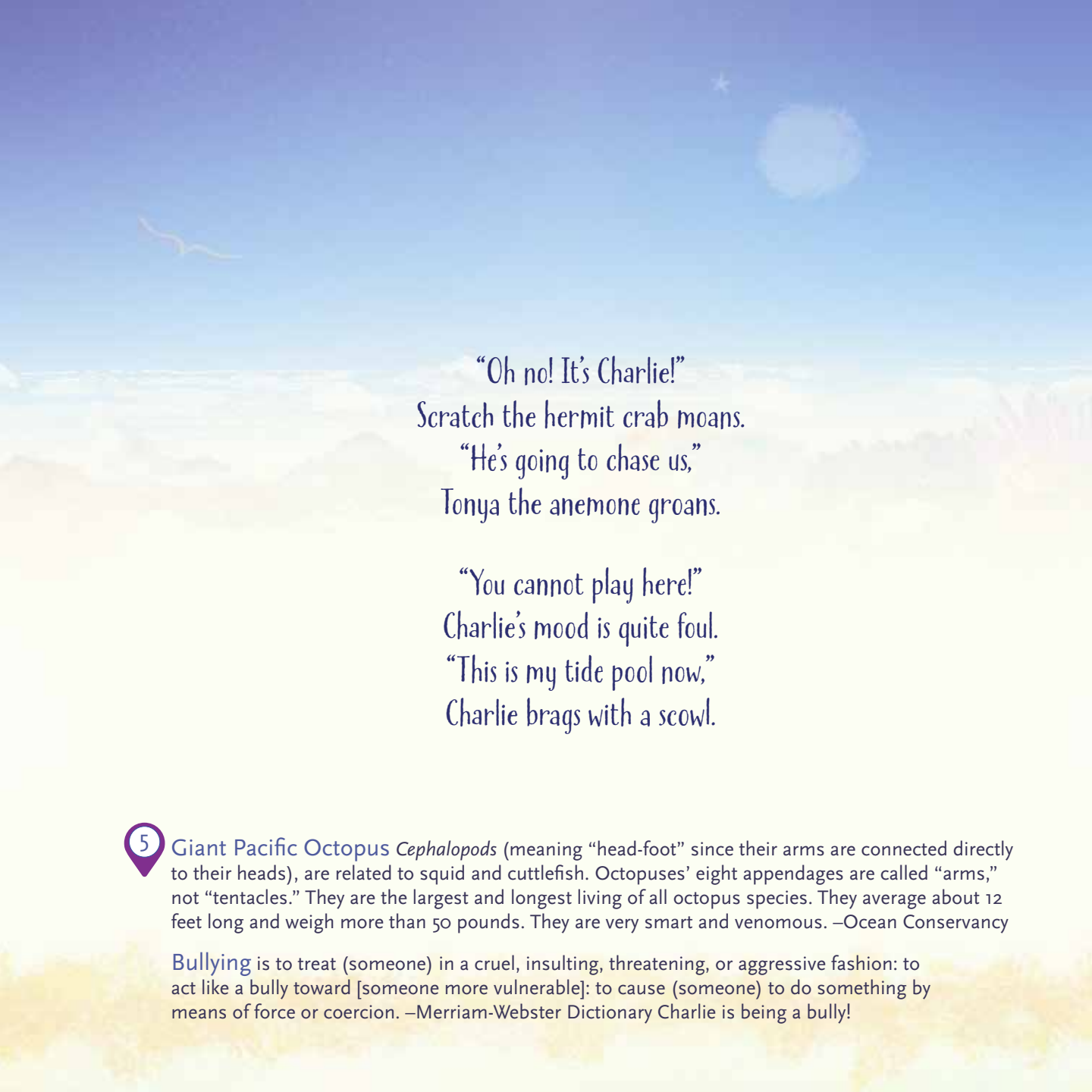
Low tide has arrived.
It's a beautiful day
when they suddenly hear,
“Get out of my way!”

4

Creatures in Motion. As the low tide ebbs and reveals the tide pools, you will begin to see the action unfold. There is life everywhere. While some may appear not to move, like the muscles and barnacles, there is much in motion. The sea anemones, hermit crabs, sea stars, and yes, even the snails! It is truly a wonderland. You may have an hour to explore (a half hour before and a half hour after the lowest point of the tide) so waste no time in exploring!



Octopus Charlie swaggers in
like a low tide pool boss.
With his eight stretchy arms,
he looks very cross.



“Oh no! It’s Charlie!”
Scratch the hermit crab moans.
“He’s going to chase us,”
Tonya the anemone groans.

“You cannot play here!”
Charlie’s mood is quite foul.
“This is my tide pool now,”
Charlie brags with a scowl.

5 Giant Pacific Octopus *Cephalopods* (meaning “head-foot” since their arms are connected directly to their heads), are related to squid and cuttlefish. Octopuses’ eight appendages are called “arms,” not “tentacles.” They are the largest and longest living of all octopus species. They average about 12 feet long and weigh more than 50 pounds. They are very smart and venomous. –Ocean Conservancy

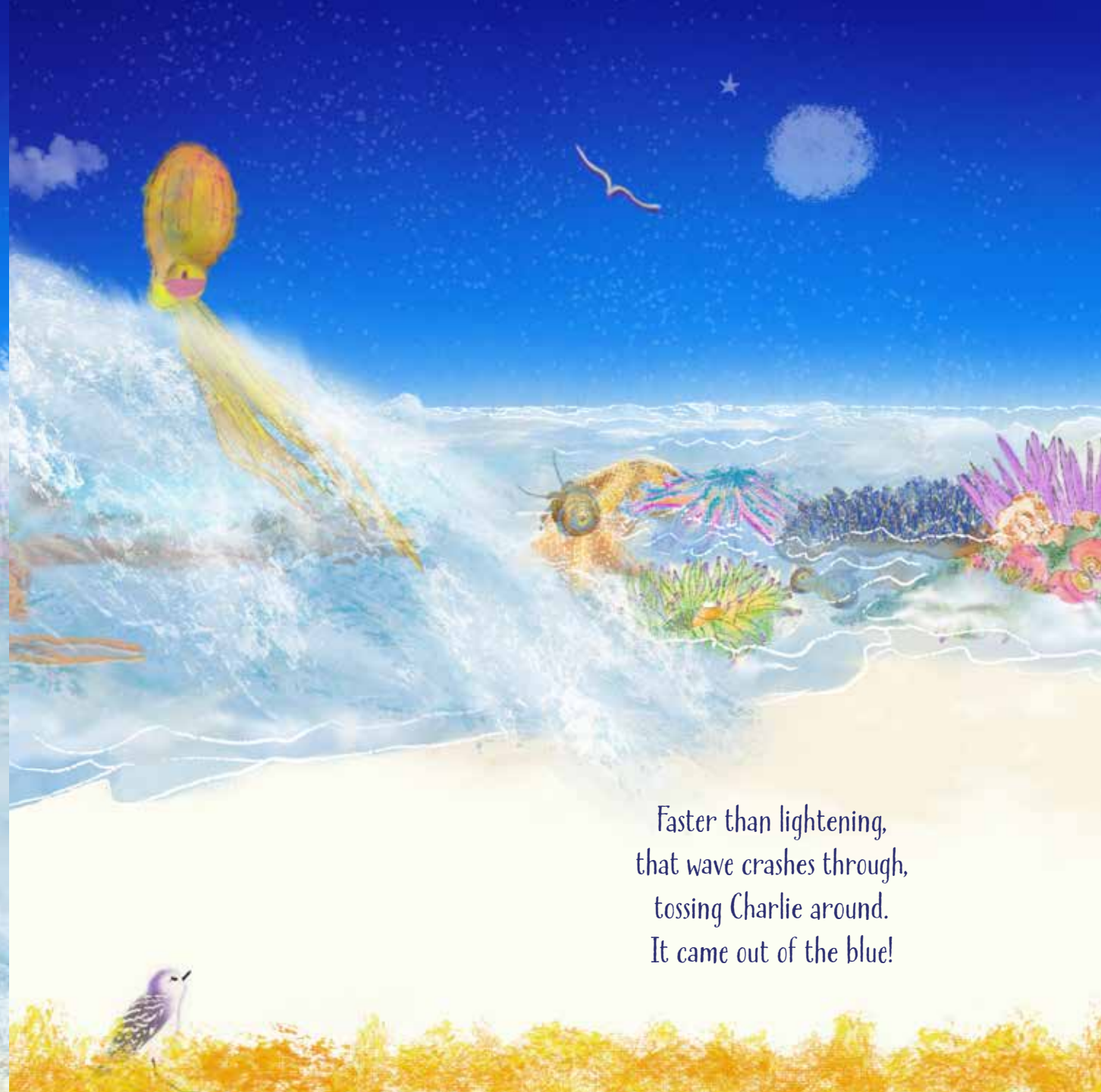
Bullying is to treat (someone) in a cruel, insulting, threatening, or aggressive fashion: to act like a bully toward [someone more vulnerable]: to cause (someone) to do something by means of force or coercion. –Merriam-Webster Dictionary Charlie is being a bully!



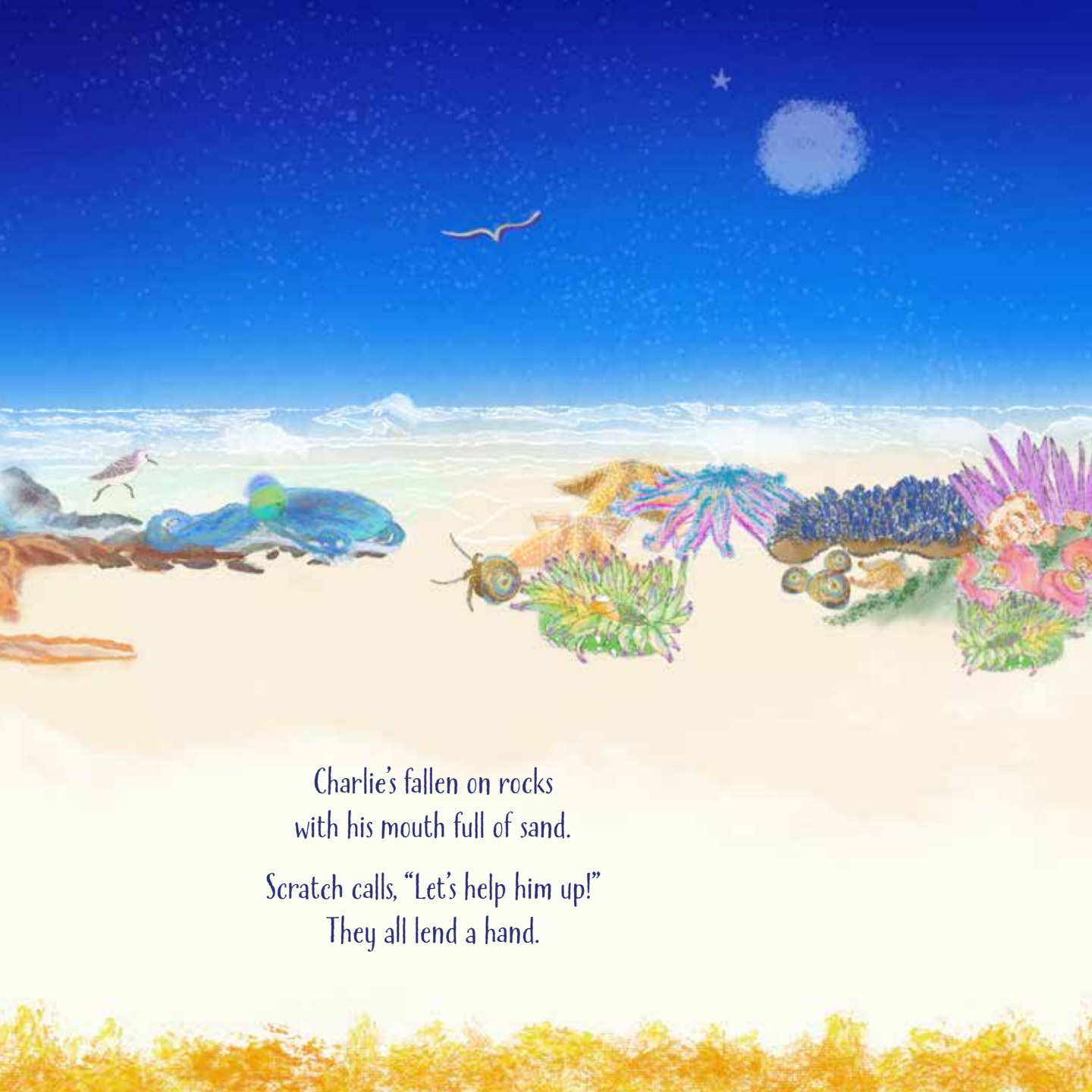
Just then Scratch's eyes widen.
The ocean starts to rumble.
There's a huge wave approaching.
Charlie's in for a tumble!

6 **Sneaker Waves** are disproportionately large ocean waves which appear suddenly and without any warning at all... These waves form when several smaller waves combine their energy, creating a single big wave as a result of the disruption of ocean currents or because of subtle changes in weather and topography. Unlike a tsunami, a sneaker wave is not a predictable event. –AllThingsNature

The author has survived two instances in her lifetime, one on the California Coast near San Francisco in 1986 and the other in Iceland in 2022.



Faster than lightening,
that wave crashes through,
tossing Charlie around.
It came out of the blue!



Charlie's fallen on rocks
with his mouth full of sand.

Scratch calls, "Let's help him up!"
They all lend a hand.



Charlie sees the creatures
in a very new way.

"How could I be so mean
when they helped me today?"



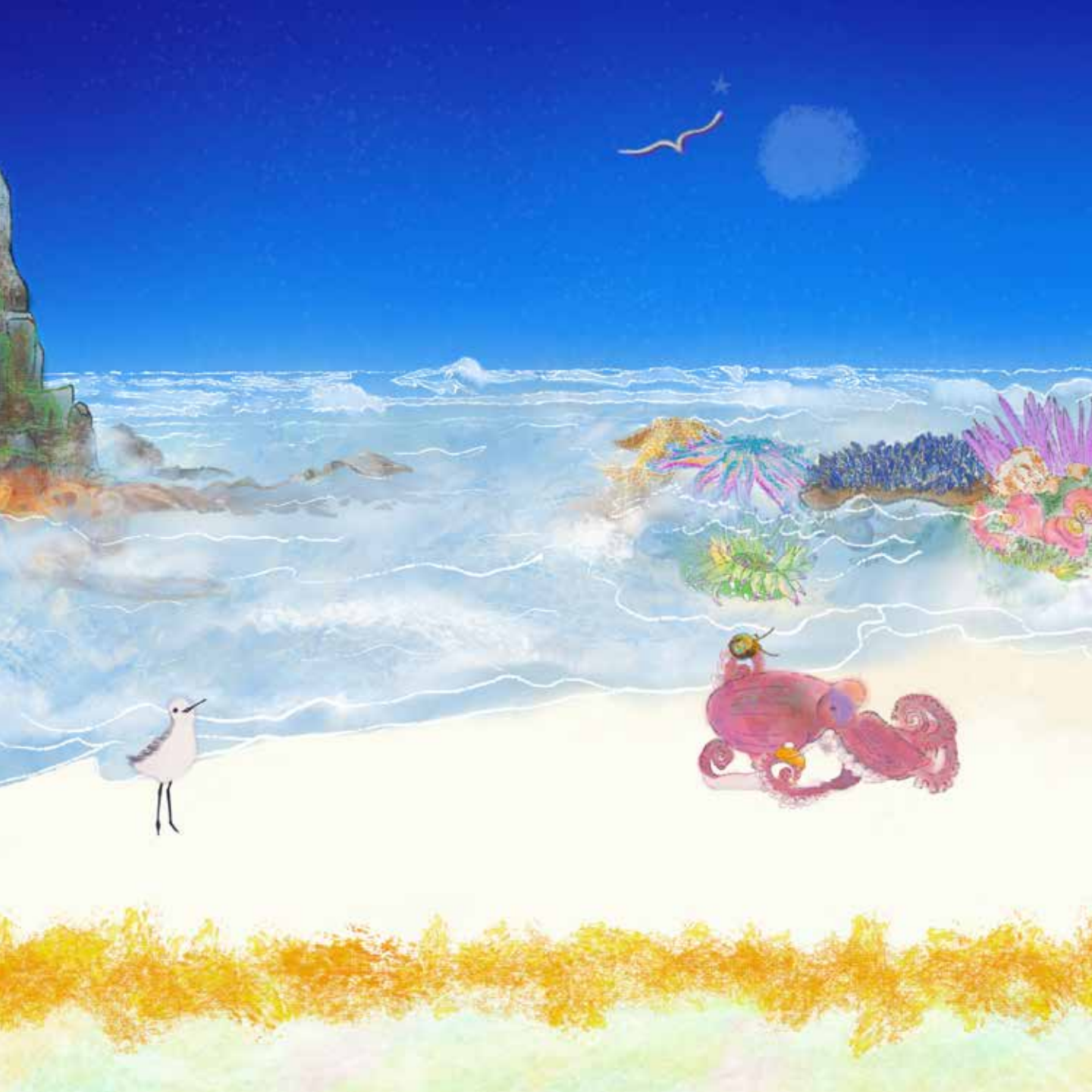
Scratch and Tonya move back.
They see Charlie's so blue.
Can they now all be friends?
But will Charlie want that too?





“Wait! Can I join you?”
Charlie asks, now so hopeful.
“I was wrong to be mean
and yell, and be boastful.”





“Yes!” yell the friends.
Charlie feels good inside.

“Then climb up on me.
Let’s go for a ride!”



The tide ebbs away
where ocean meets land.

The tide flows in
at the edge of the sand.

Help our tide pool friends find each other!



Can you find Peep, the sand piper on every page?
She follows the tide at the edge of the sand.

Can you match our tidal pool friends to
their creature names?



Sea Stars

Muscles

Snails

Green Sea Anemone

Sea Urchin

Pacific Octopus

Hermit Crab

Seagull

Kelp

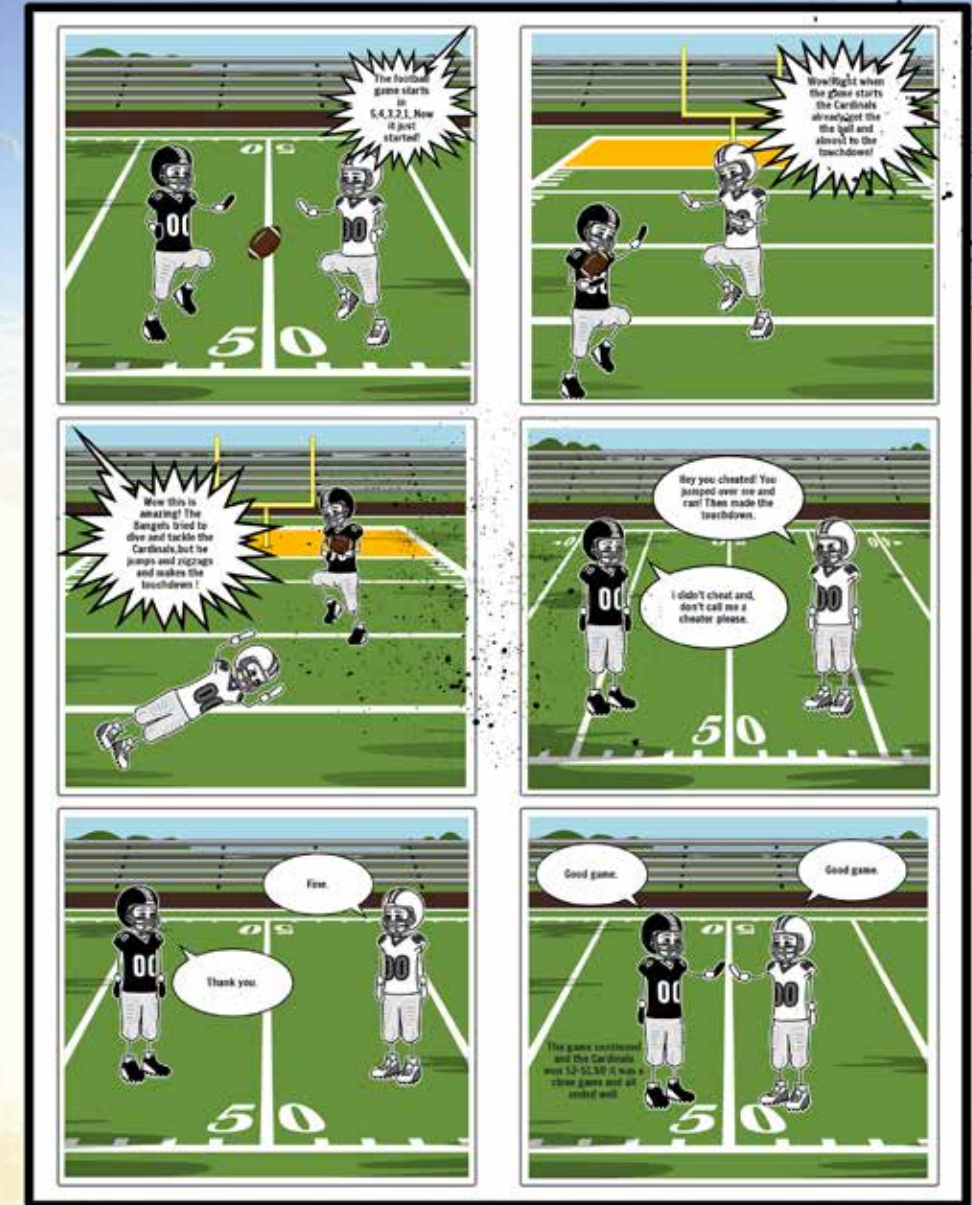
Sand Piper

Conch

A 7-year old's Graphic Novel about dealing with bullying



A 9-year old's Graphic Novel about dealing with bullying



Join us on our next Chase

Adventure with Allie as she searches for connections in
“Chasing the Magic of Andean Skies.”

The Chase Series

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“Chasing the Moon and the Morning Star.”

More Chases-in-the-Making:

Chasing Longnecks across the Savanna

Chasing Whales over Open Seas

The Chase Series is a
publication of the
Little Lion Lighthouse.



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