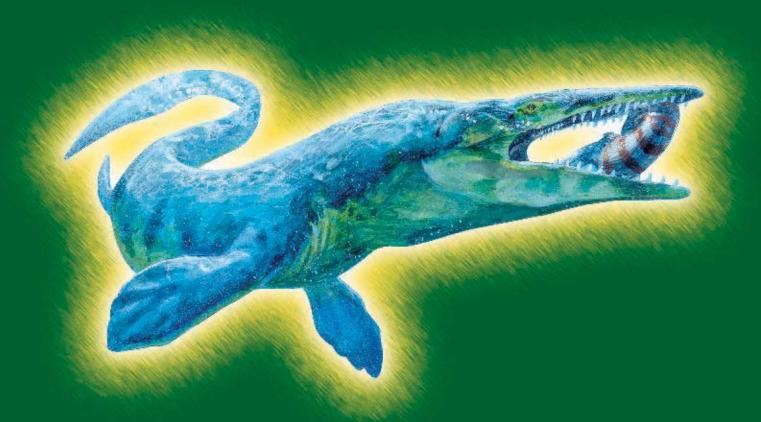
DINGSAUR TIME



BY "DINO" DON LESSEM ILLUSTRATIONS BY JOHN BINDON

DINOSAURS

DINUSAUR TIME



BY "DINO" DON LESSEM
ILLUSTRATIONS BY JOHN BINDON

LERNER PUBLICATIONS COMPANY / MINNEAPOLIS

To Brian Joseph, my first friend, who has nothing whatsoever to do with anything in this book

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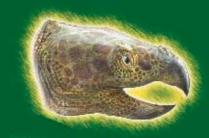
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SEA GIANTS



WELCOME, DINOSAUR FANS!

I'm "Dino" Don. I LOVE dinosaurs. And I love the other weird animals that lived during dinosaur time. While dinosaurs ruled the land, giant reptiles ruled the seas. Come meet these amazing ocean animals. You won't even get your feet wet!



ARCHELON (AHR-kuh-lahn)

Length: 12 feet

Home: western North America Time: 70 million years ago



ICHTHYOSAURUS (IHK-thee-uh-SAWR-uhs)

Length: 6 feet

Home: western Europe, North America

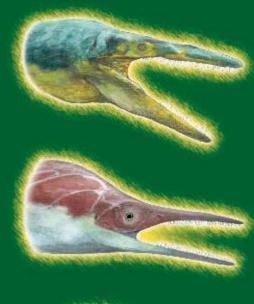
Time: 180 million years ago



KRONOSAURUS (KROH-nuh-SAWR-uhs)

Length: 42 feet

Home: northeastern Australia Time: 120 million years ago



MOSASAURUS (MOH-suh-SAWR-uhs)

Length: 45 feet

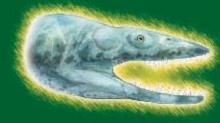
Home: North America Time: 65 million years ago



Length: 11 feet

Home: western Europe, North and South America

Time: 150 million years ago



PLESIOSAURUS (PLEE-zee-uh-SAWR-uhs)

Length: 8 feet

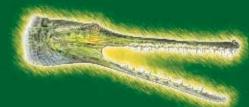
Home: western Europe Time: 180 million years ago



SHONISAURUS (SHO-nee-SAWR-uhs)

Length: 50 feet

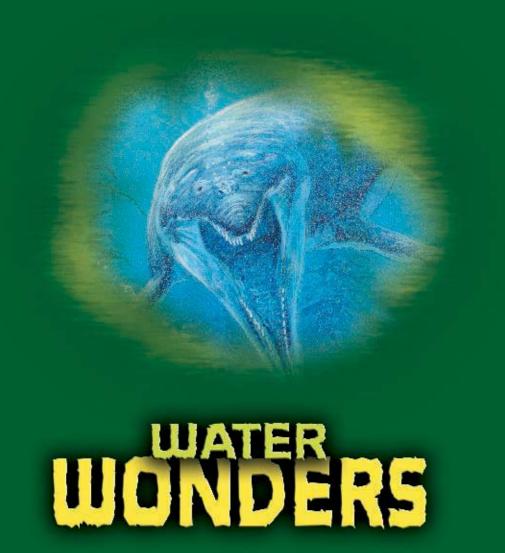
Home: western North America Time: 220 million years ago



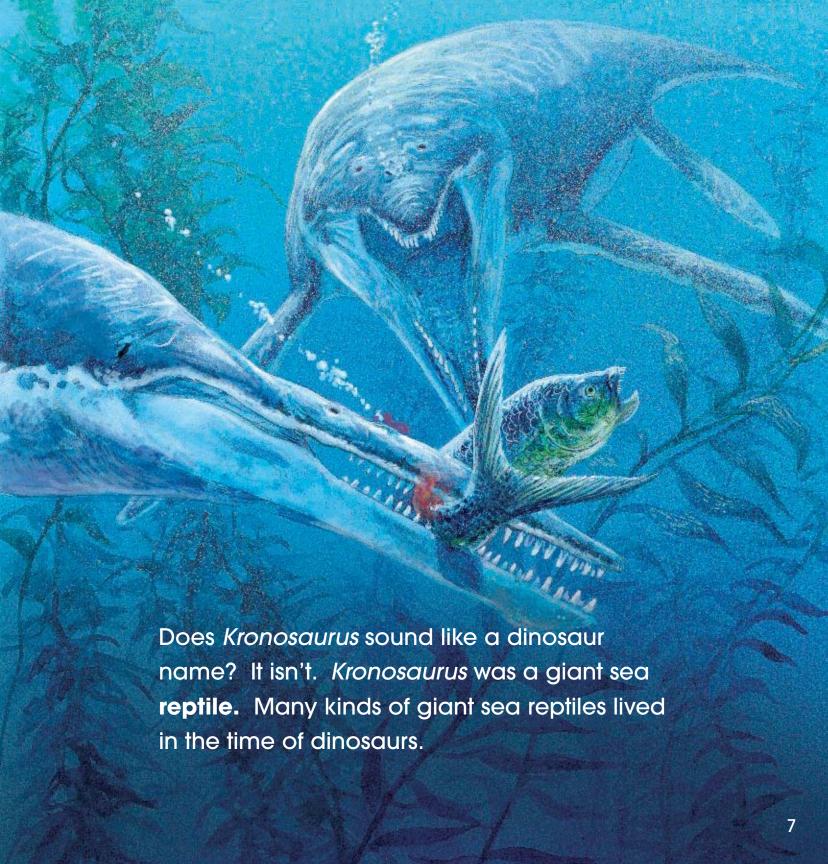
TELEOSAURUS (TEE-lee-uh-SAWR-uhs)

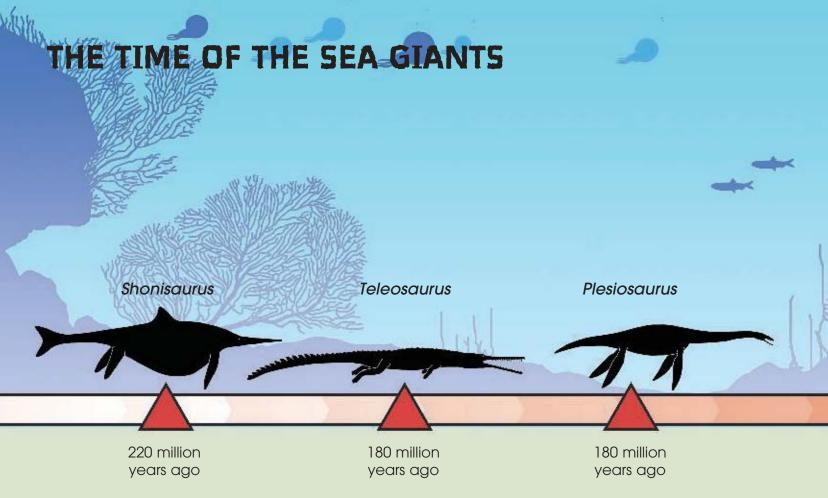
Length: 10 feet

Home: western Europe Time: 180 million years ago



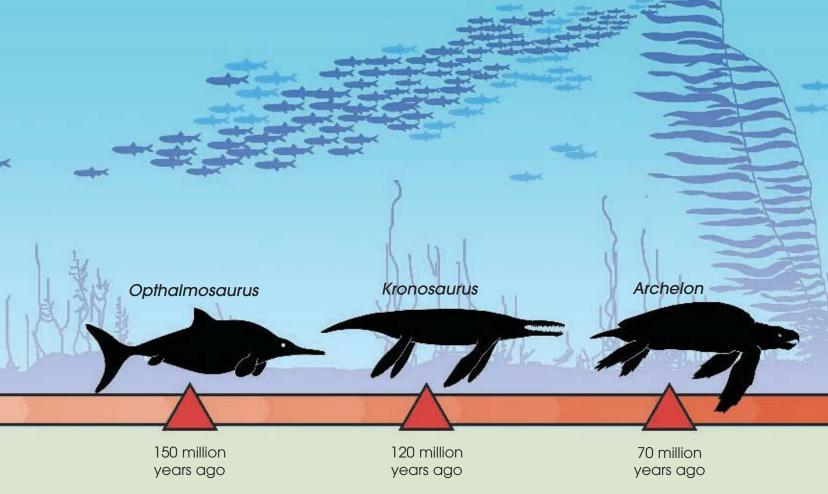
We are deep underwater 120 million years ago. Two huge *Kronosaurus* battle for a large fish. Each *Kronosaurus* is as long as an ice cream truck. Snap! One *Kronosaurus* grabs the fish with its sharp-toothed jaws.





Giant sea reptiles were not dinosaurs.

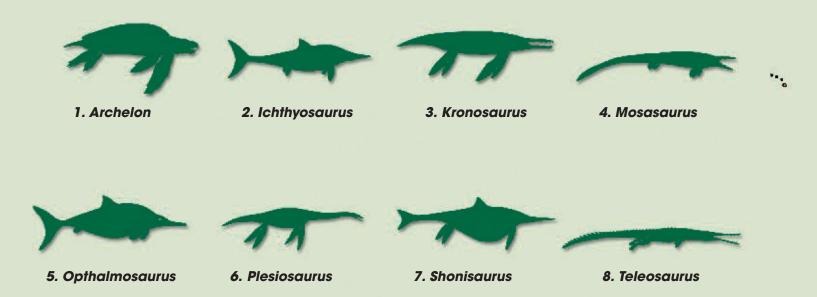
Dinosaurs came into the water only for a swim. But sea reptiles lived in the water. Dinosaurs had arms and legs. But most sea reptiles had flippers. Baby dinosaurs hatched from eggs. But at least some kinds of sea reptiles were born live.



Like all reptiles, the sea giants had scaly skin.
All sea reptiles breathed air with their lungs.
But sea reptiles were different from each other.
Some were **predators** that hunted fish. Others ate eggs. Some were shaped like dolphins.
Other sea reptiles had long necks and bodies.
And still others had short, thick bodies.

SEA GIANT FOSSIL FINDS

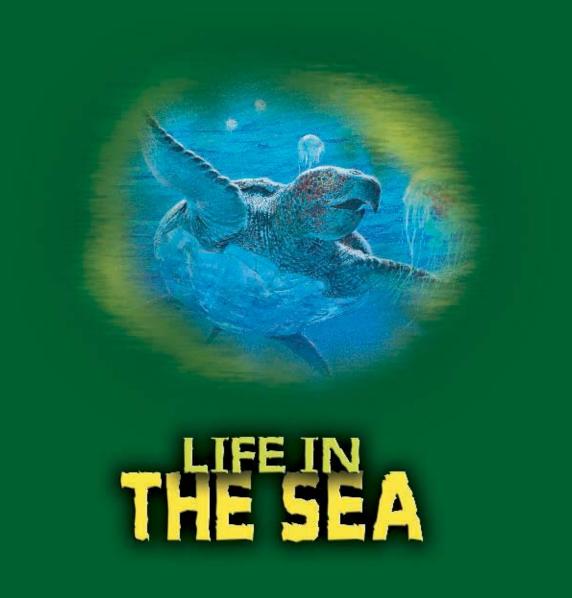
The numbers on the map on page 11 show some of the places where people have found fossils of the giant sea reptiles in this book. You can match each number on the map to the name and picture of the sea reptiles on this page.



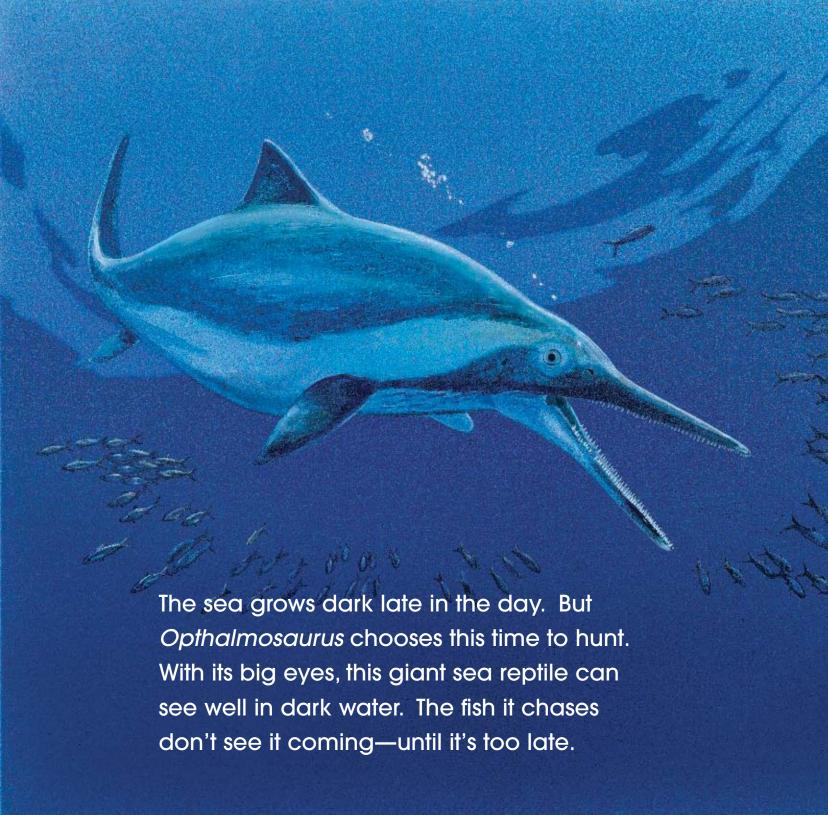
How do we know about the sea giants?
For hundreds of years, people have found and studied the traces sea reptiles left behind when they died. **Fossils** of bones, eggs, and teeth have shown us how the giants looked and lived. So far, we've discovered hundreds of giant sea reptiles.

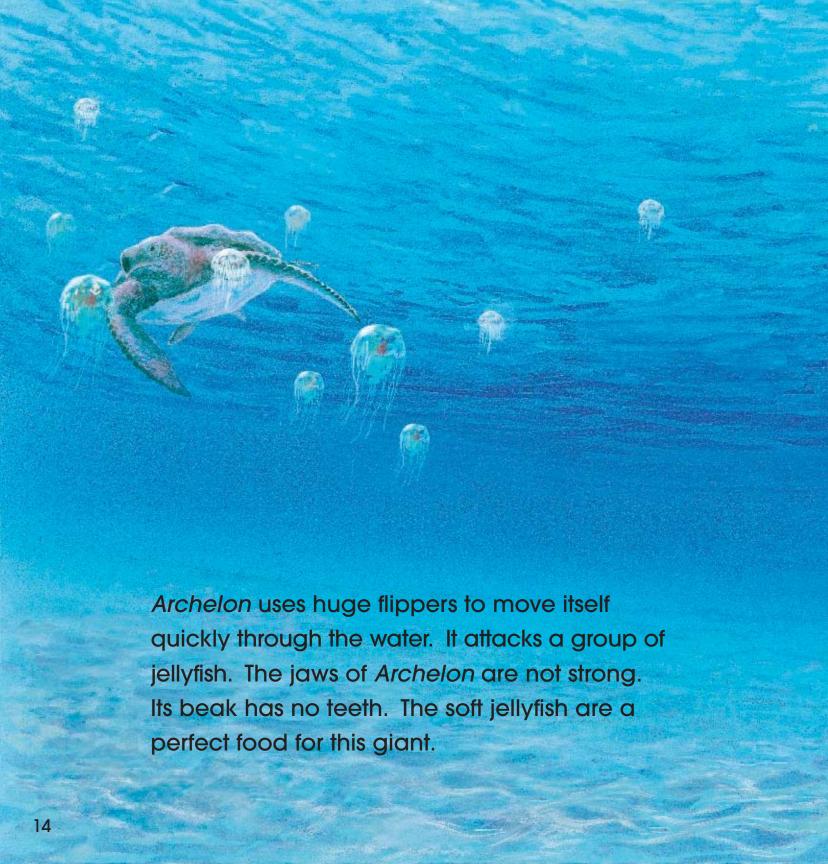


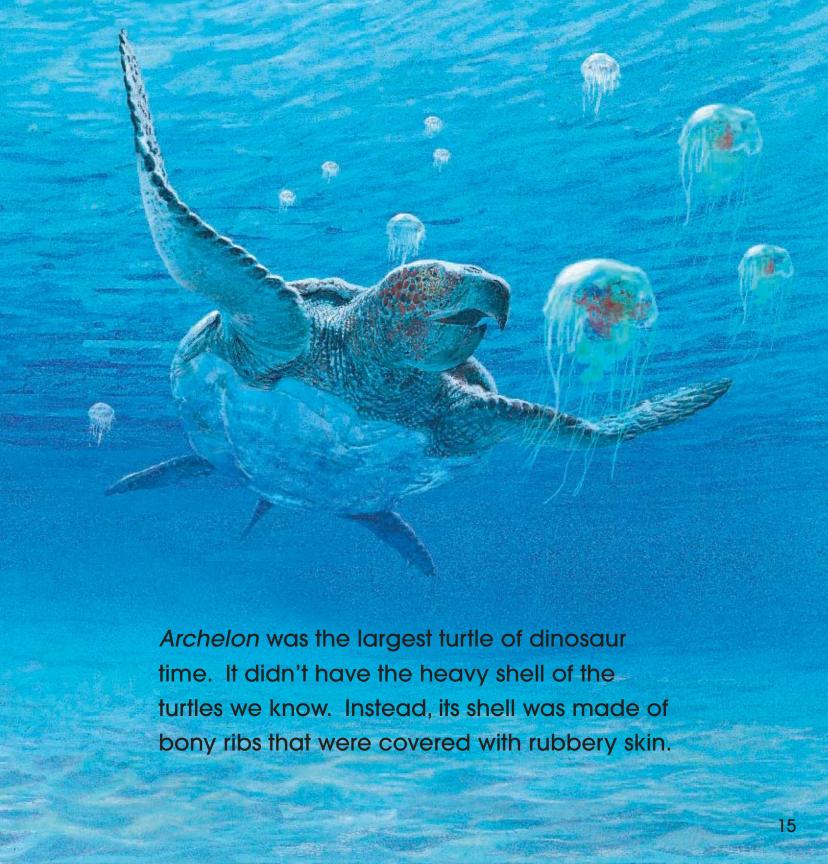
Giant sea reptiles lived in all of the world's oceans. So why does this map show sea reptiles on land? Some places were underwater during sea giant time. Scientists have found fossils in those places. It's too hard to look for fossils at the bottom of the ocean!



How did the sea giants survive in the ocean? Finding enough food wasn't easy for such large animals. But they had many different ways of hunting.

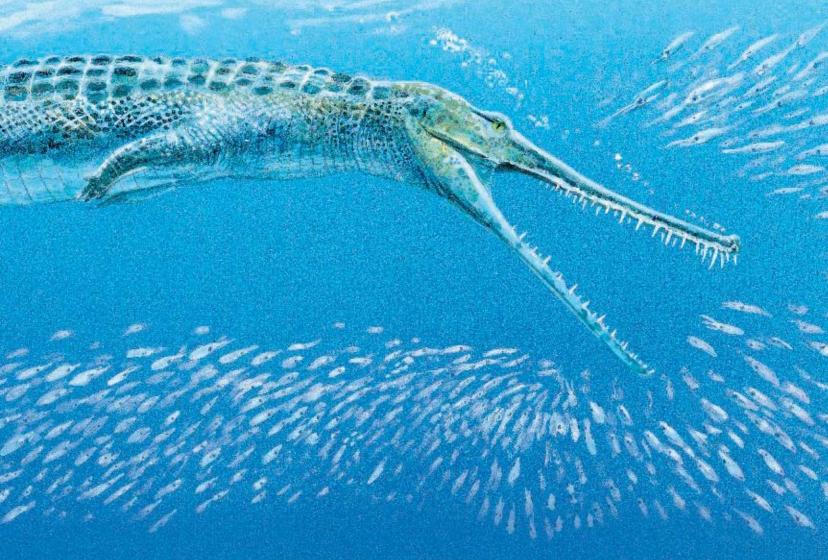




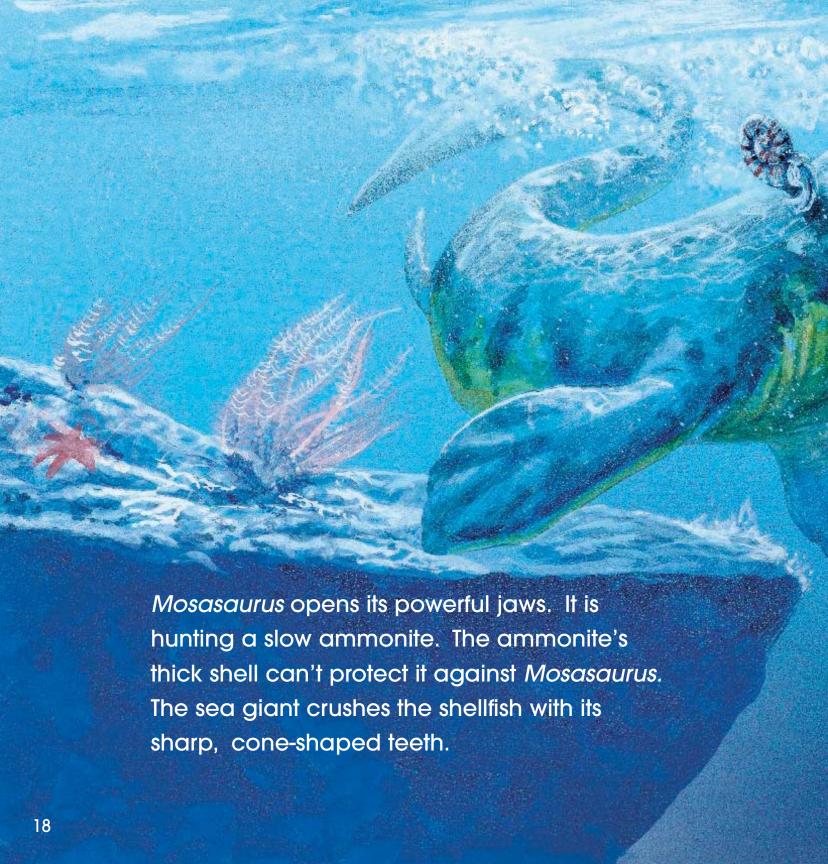


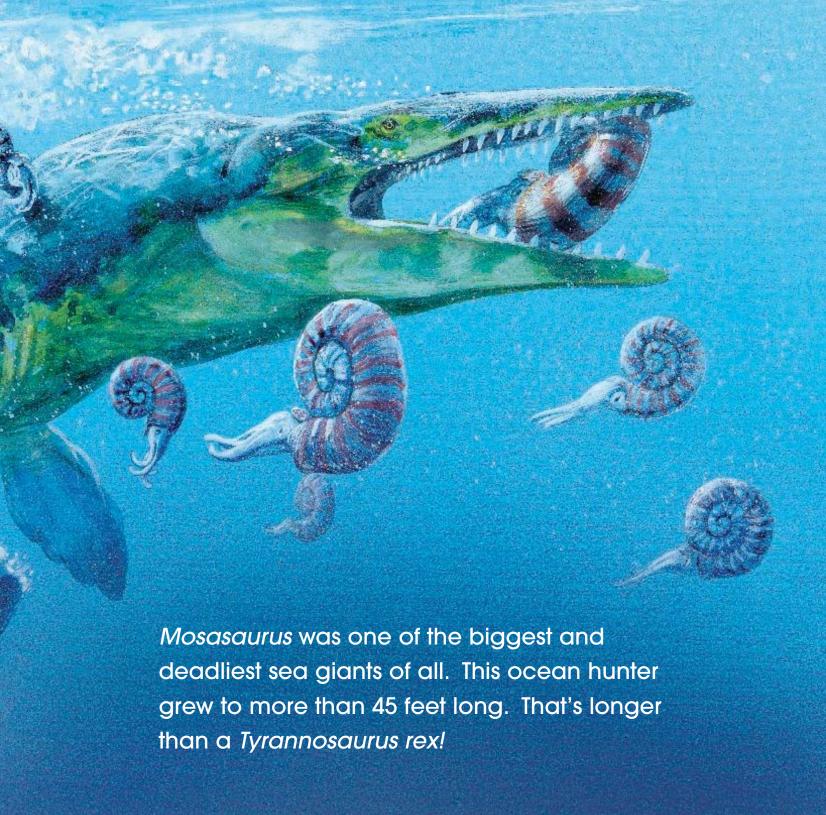


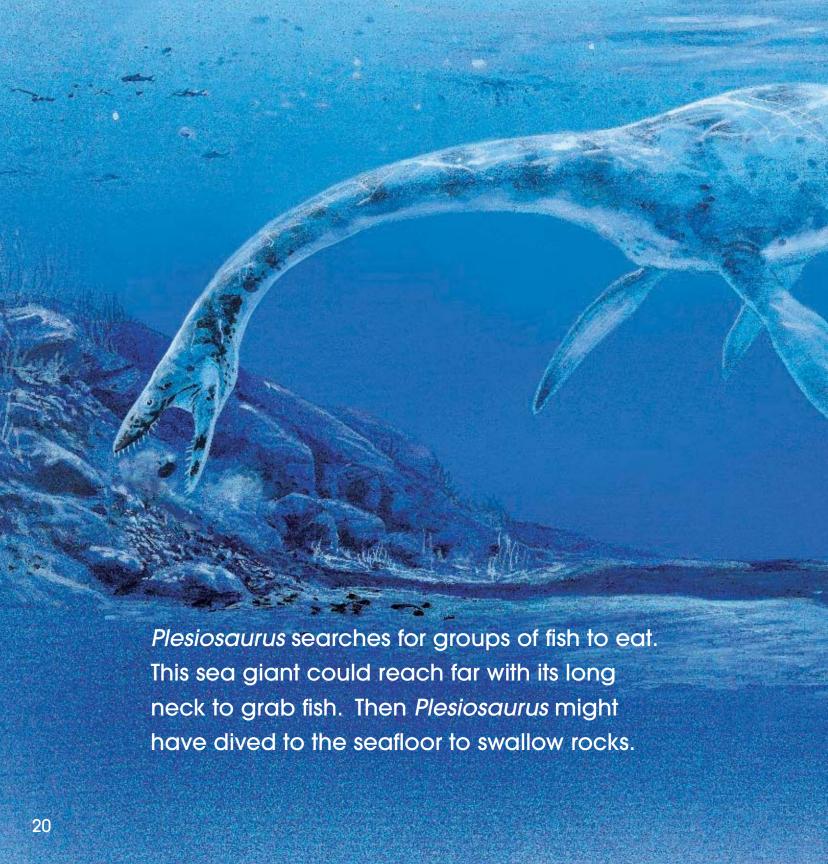
Teleosaurus swishes quickly through the water. Its short legs are tucked up against its body. It is as long as a large rowboat. This sea crocodile closes in on a squid. Teleosaurus snaps up the squid with long, narrow jaws full of pointy teeth.

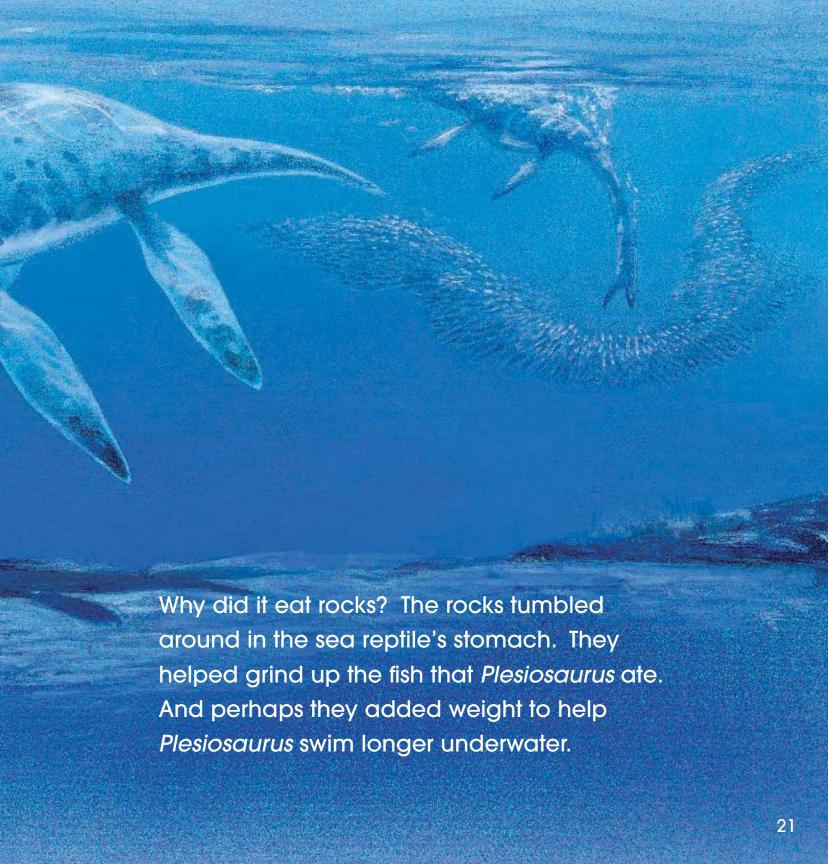


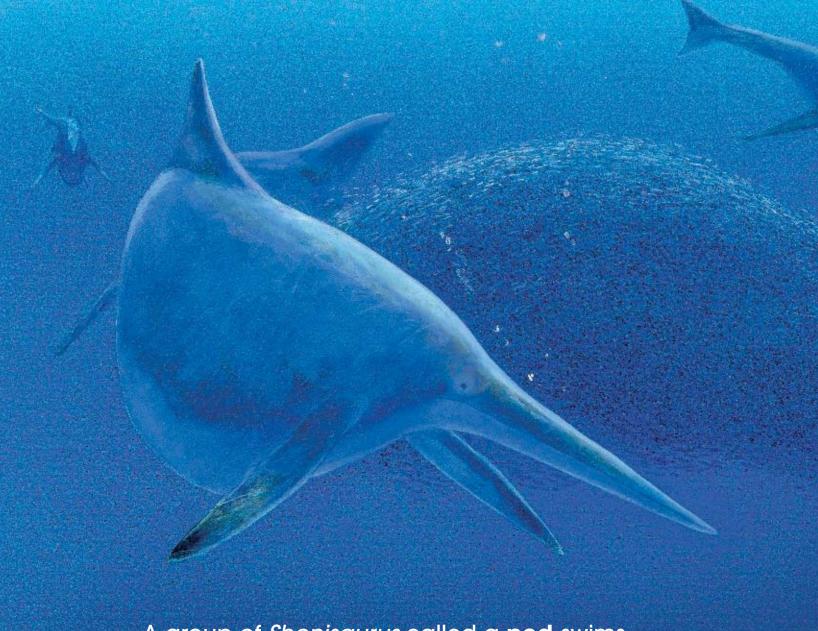
Since before the time of the dinosaurs, crocodiles have lived in rivers and swamps around the world. In dinosaur time, some crocodiles grew longer than school buses. And some swam out in the deep ocean, as *Teleosaurus* did.









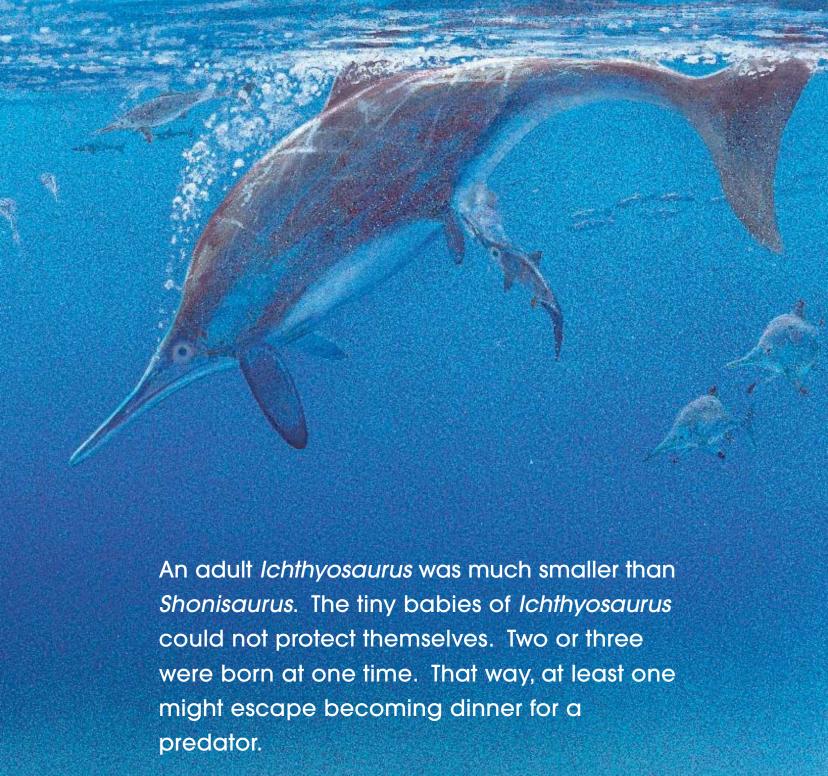


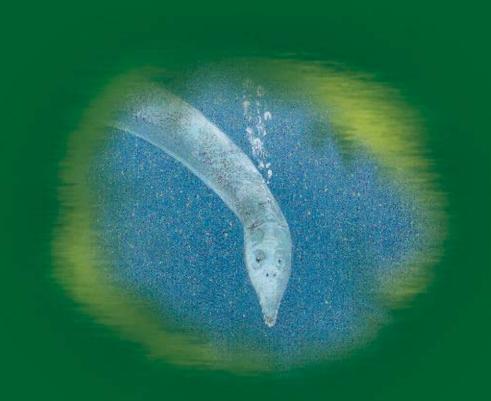
A group of *Shonisaurus* called a **pod** swims through the water. The pod surrounds a school of fish. Working together, the huge sea reptiles herd the fish and snap them up.

Shonisaurus was one of the biggest of all sea reptiles. Its body stretched longer than half a tennis court! Scientists think that Shonisaurus may have lived in pods, like dolphins. But it didn't swim the way dolphins do. Shonisaurus moved its tail from side to side. Dolphins flap their tail up and down.



Fossils show us how some sea reptiles were born. This photo shows a small baby flowing out from under the tail of a dolphinlike sea reptile. *Ichthyosaurus* is giving birth! The baby swims freely from the moment it is born. It searches for small ocean creatures to eat.





THE SEA GLANTS?

The great sea reptiles disappeared 65 million years ago. The last of the dinosaurs died out then too. What killed them? Many scientists think that changes in Earth's weather made it hard for huge animals to find enough food.



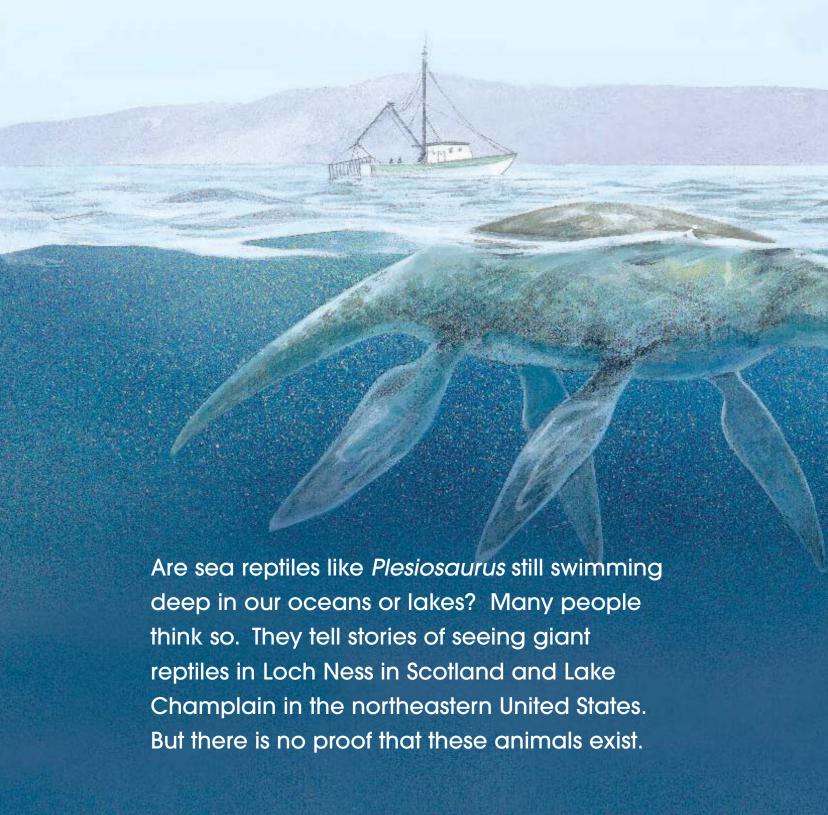
The coast of England is one of the best places to find fossils of sea giants. Fossils have taught us many things about how the giant sea reptiles lived. We've even learned from fossil poop! It shows that *Ichthyosaurus* ate fish.

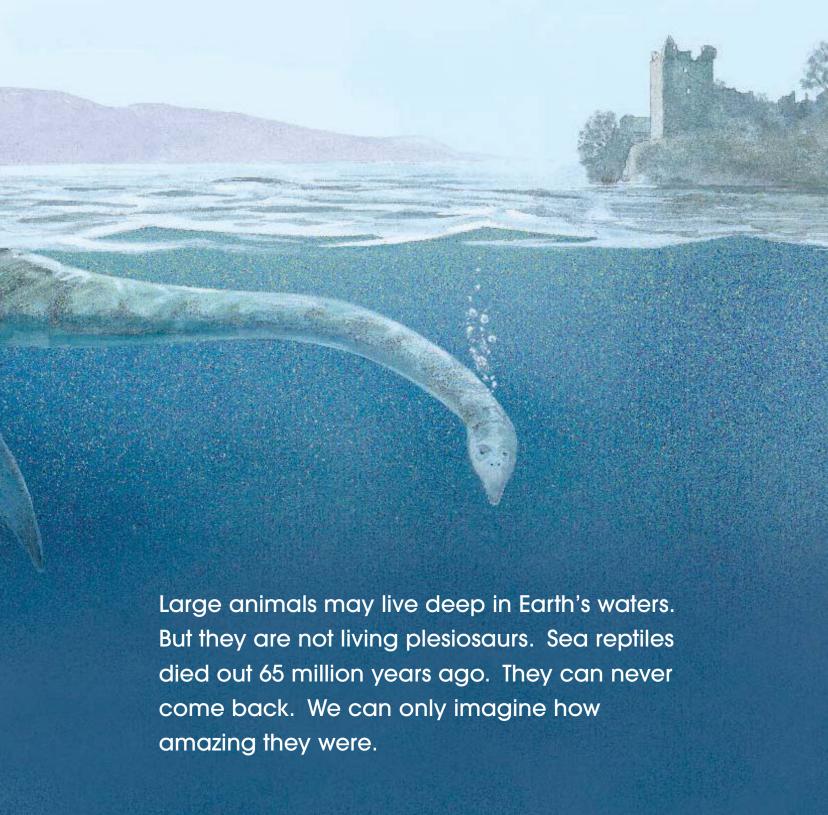


Most fossils are not found by scientists. Nearly 200 years ago in England, a boy named Joseph Anning found a strange skull in the cliffs near his home. A year later, his 12-year-old sister Mary found the rest of the skeleton. It was the first known *Ichthyosaurus*!



This photo shows Mary's *Ichthyosaurus* discovery. That skeleton wasn't her only great discovery. She also found a *Plesiosaurus* and many other fossils. Mary's amazing finds created great interest in **paleontology**, the science of studying ancient life.





GLOSSARY

fossils (FAH-suhlz): the remains, tracks, or traces of something that lived long ago

TAH-luh-jee): the study of ancient living things from their fossils

pod (PAHD): a small group of animals that swim and eat together

predators (PREH-duh-turz):
animals that hunt and eat
other animals

reptile (REHP-tyl): an animal that has scaly skin and breathes air with its lungs

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