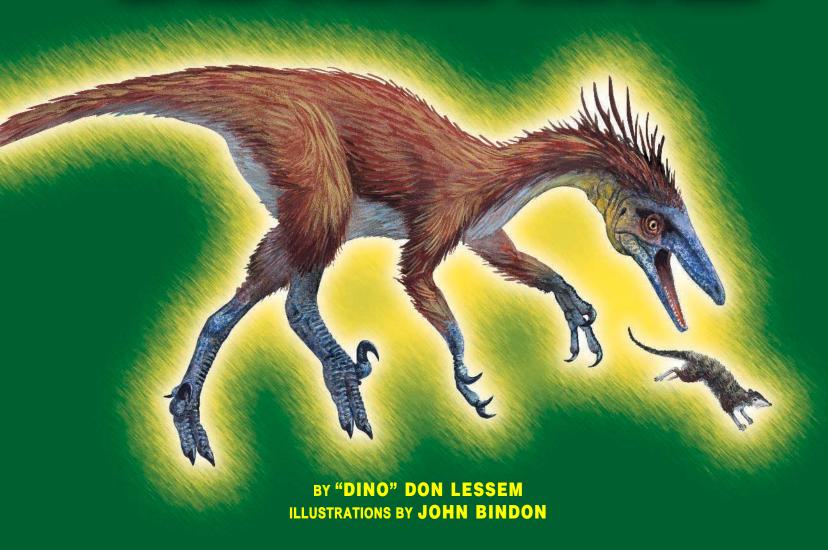


THE FASTEST DINUSAURS



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FASTEST DINUSAURS



WELCOME, DINOSAUR FANS!

I'm "Dino" Don. I love all dinosaurs. Everyone knows about giant dinosaurs like *Brachiosaurus*. They ran about as fast as the plants they ate. But some dinosaurs were very fast runners. Have you heard of these speedy dinosaurs? You'll find out about them here. Have fun!



GALLIMIMUS (GAL-ih-MY-muhs)

Length: 17 feet Home: central Asia

Time: 70 million years ago



GASPARINISAURA (gas-pahr-EE-nee-SAWR-uh)

Length: 2.5 feet Home: South America Time: 84 million years ago



MICRORAPTOR (MY-kroh-RAP-tohr)

Length: 1.8 feet Home: Asia

Time: 124 million years ago



ORNITHOMIMUS (ohr-NITH-oh-MY-muhs)

Length: 12 feet

Home: western North America Time: 65 million years ago



STRUTHIOMIMUS (STROOTH-ee-oh-MY-muhs)

Length: 13 feet

Home: western North America Time: 76 million years ago



TROODON (TROH-uh-dahn)

Length: 6 feet

Home: western North America Time: 76 million years ago



VELOCIRAPTOR (veh-LAHS-ih-RAP-tohr)

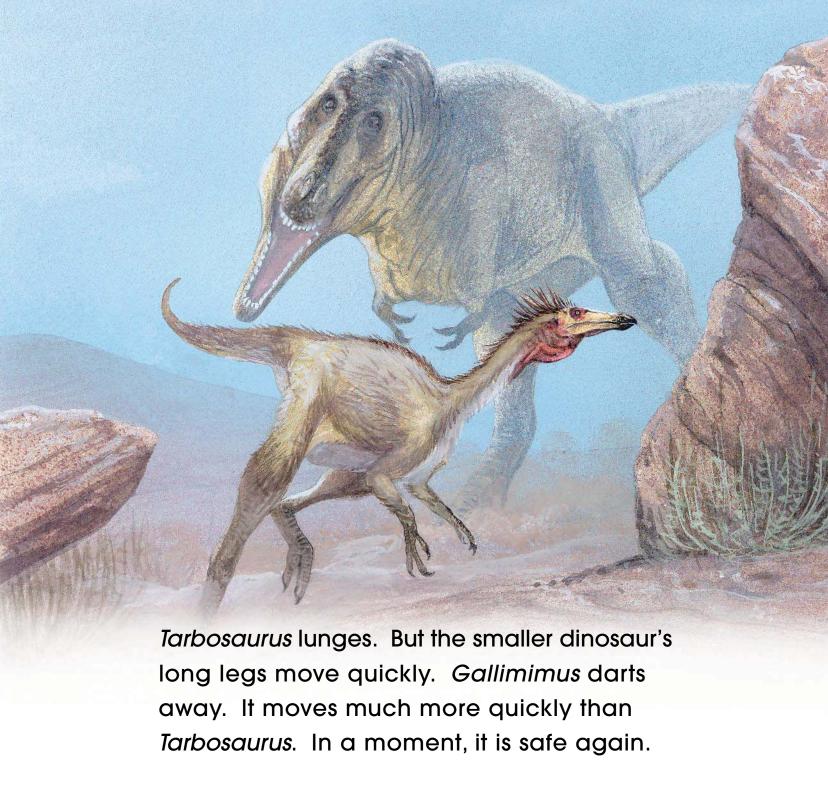
Length: 6.5 feet Home: central Asia

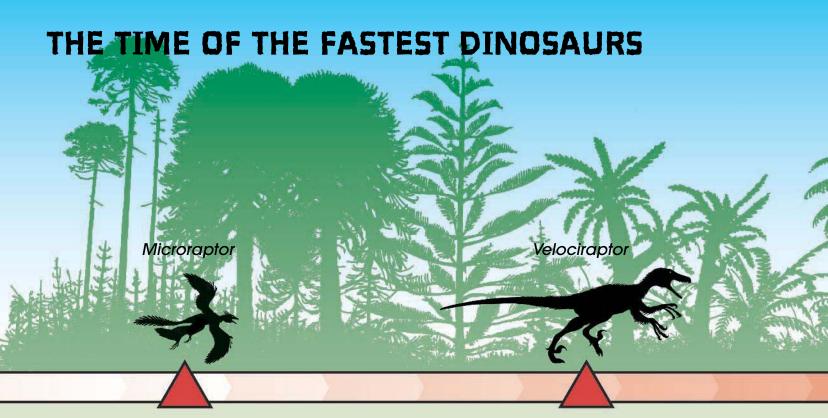
Time: 80 million years ago



THE RACE IS ON

A huge *Tarbosaurus* is closing in. The long-legged *Gallimimus* doesn't see the **predator** coming. *Tarbosaurus* reaches out to bite. At last, *Gallimimus* spots the hunting dinosaur and turns to run.

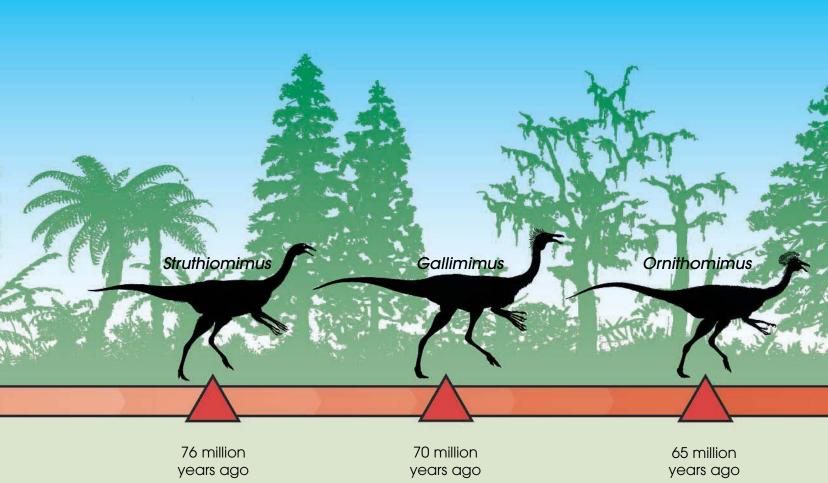




124 million years ago

80 million years ago

Dinosaurs first appeared nearly 230 million years ago. Back then, giant reptiles were the earth's fiercest animals. These animals had scaly skin. Some dinosaurs did too. But dinosaurs weren't reptiles. Dinosaurs walked on straight legs. Most reptiles have bent legs.

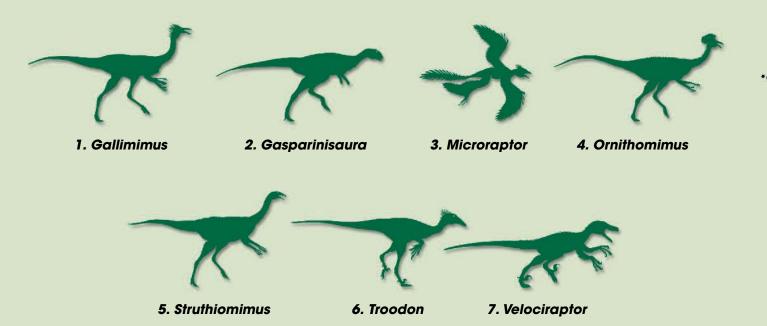


Straight legs helped some dinosaurs run faster than reptiles. Speed may have helped dinosaurs survive and grow in numbers. Over time, many giant reptiles died out. Dinosaurs then ruled the earth for more than 160 million years.

DINOSAUR FOSSIL FINDS

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

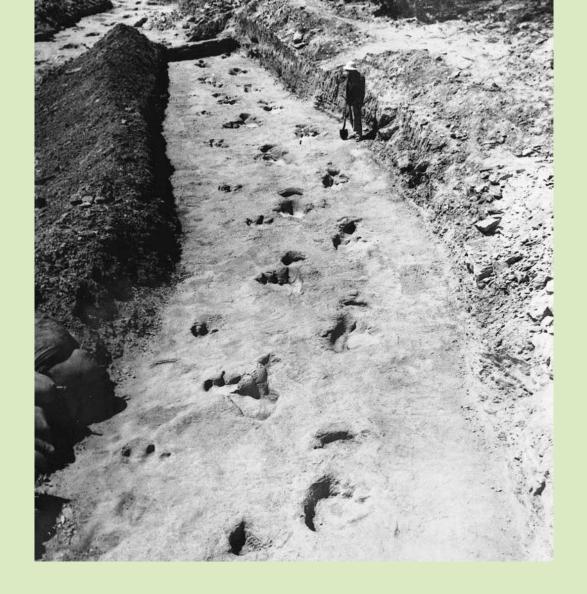




Dinosaurs lived all over the world. Their **fossils** have been found in many places. Fossils are traces left behind by something that lived long ago. Bones, teeth, and skin fossils help scientists think about how dinosaurs might have looked.



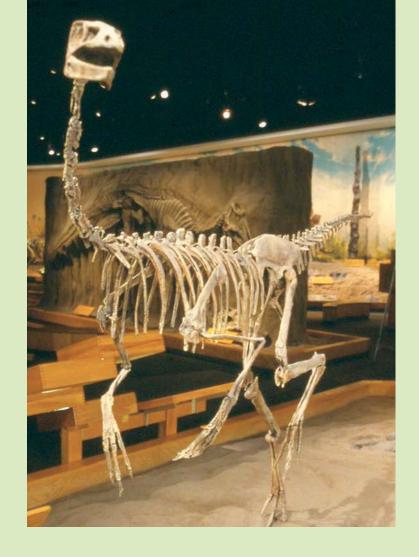
Fossils also show clues about how dinosaurs cared for their babies. Fossils helped us learn how some dinosaurs moved from place to place in groups. And by studying fossils, we've figured out how fast dinosaurs could run.



Fossils of footprints tell us the most about dinosaur speed. Scientists measure the distance between the footprints. This distance is called the **stride length.** A long stride length means long, fast legs.



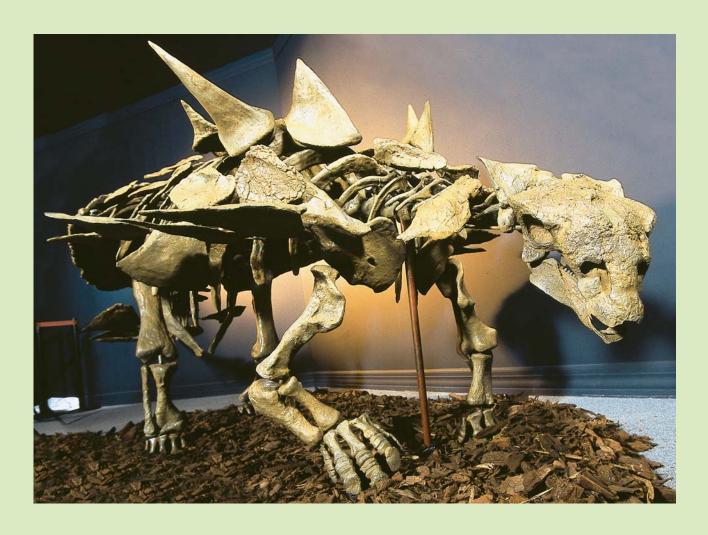
Next, scientists compare the dinosaur to a living animal. For instance, an ostrich is about the same size and shape as some dinosaurs. Scientists measure and ask questions. How fast does the ostrich run? What is its stride length? The answers help us figure out how fast some dinosaurs ran.



Bone fossils tell us about speed too.

Meat-eating dinosaurs had hollow bones.

A hollow bone is filled with air. It weighs less than bones that aren't hollow. The fastest dinosaurs, like this *Ornithomimus*, had light bodies and long, hollow leg bones.

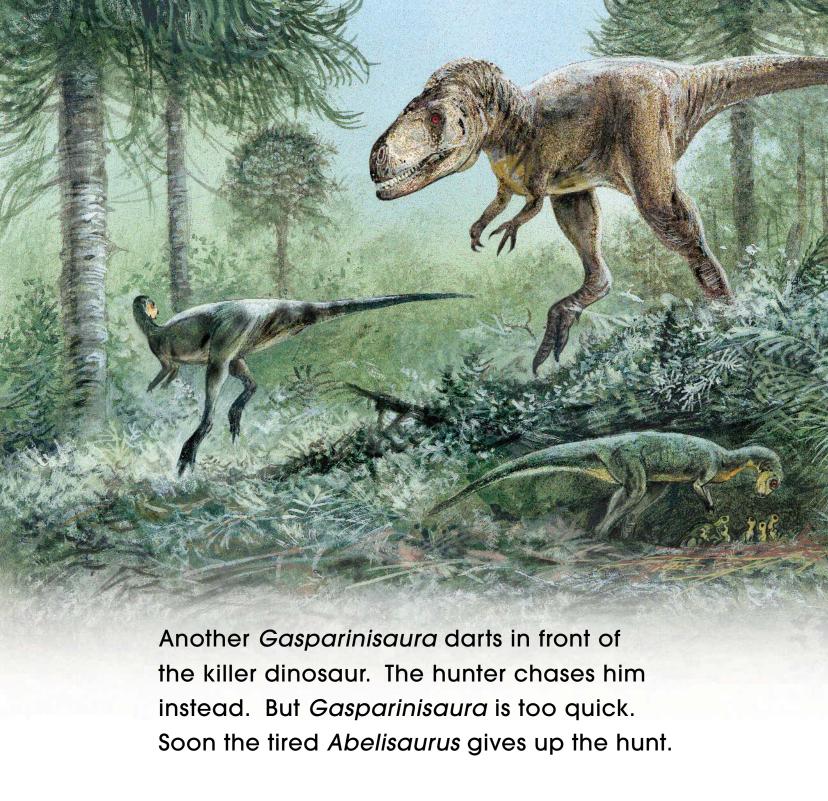


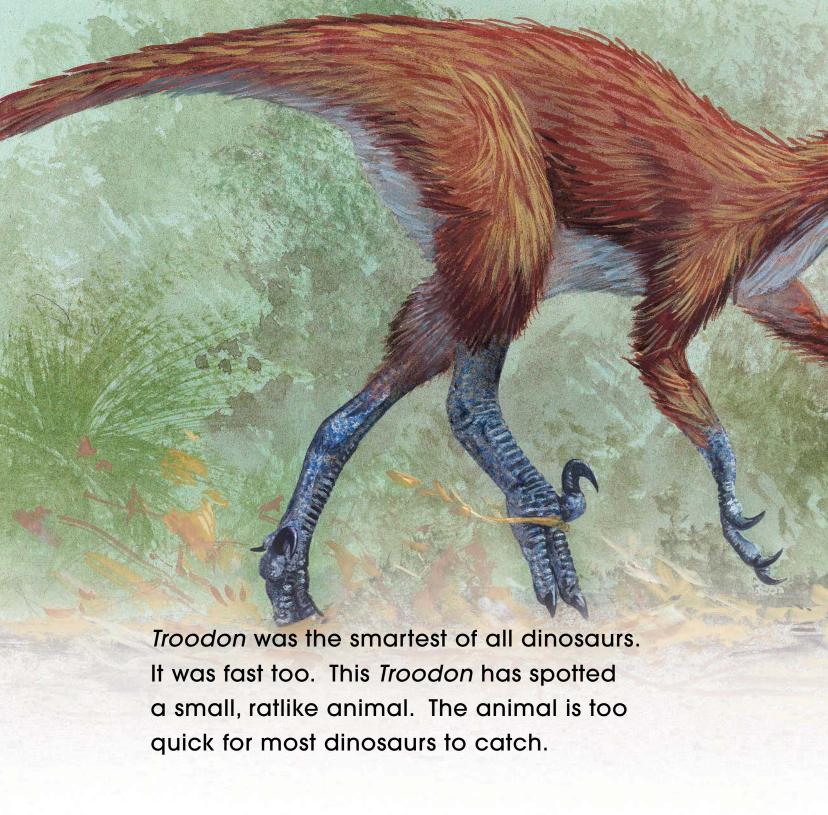
Some dinosaurs were very heavy, like this *Gastonia*. With thick leg bones and plates of armor, these dinosaurs couldn't run fast. Perhaps they couldn't run at all. But their armor protected them from attack.

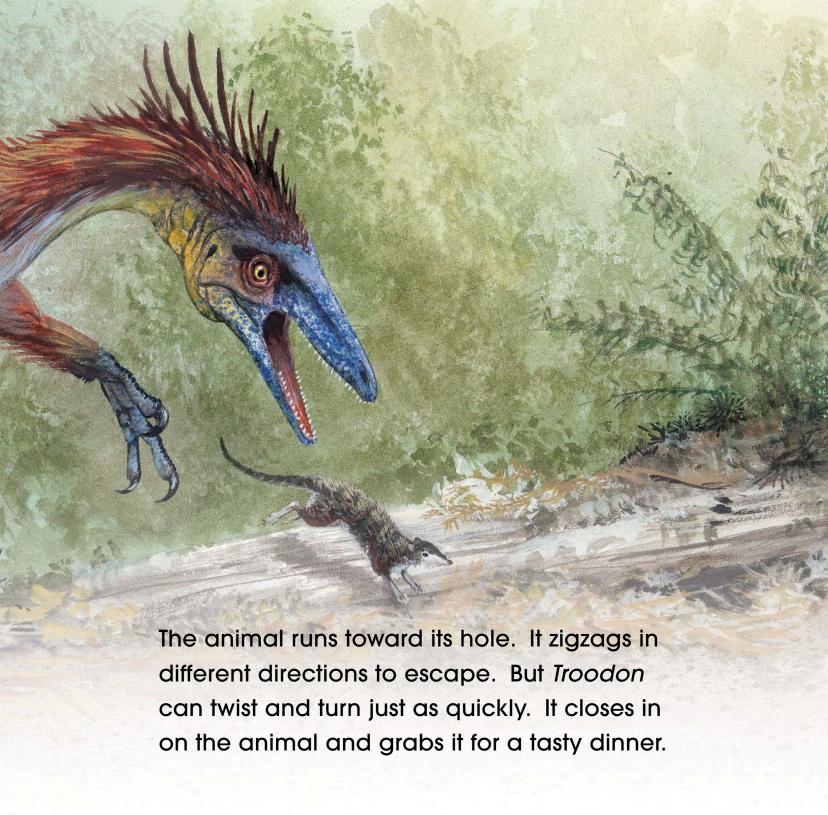


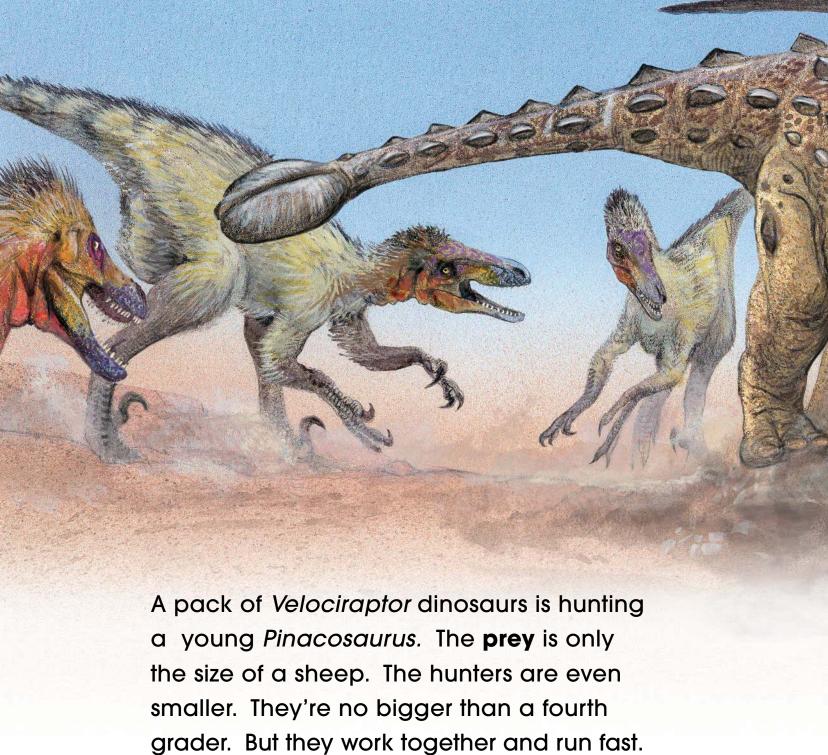
REASONS TO RUN

A young *Abelisaurus* on the hunt spots a little plant eater called *Gasparinisaura*. She's taking care of her babies in her nest. She can't run away without leaving the nest. Will *Abelisaurus* attack her?









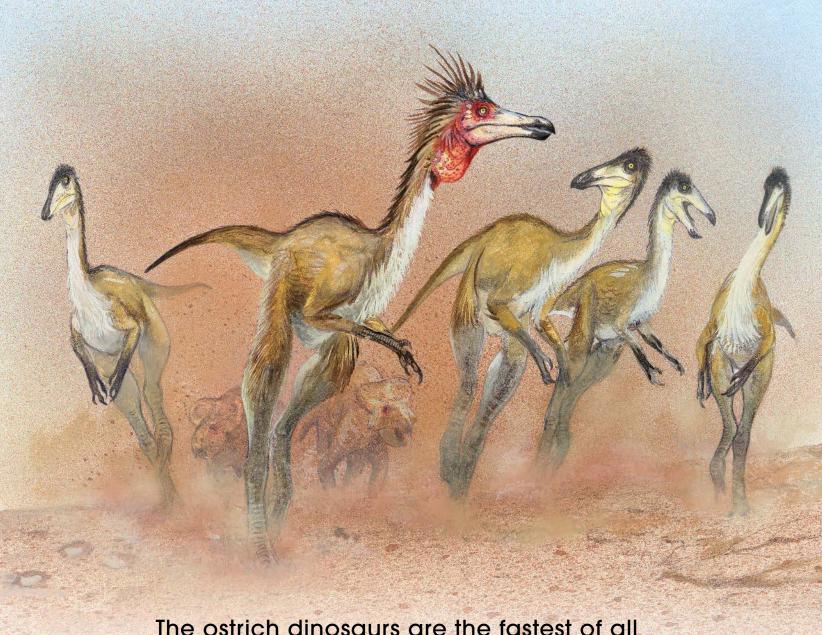


Speed was very helpful to meat-eating dinosaurs. They had to be faster than their prey to catch a meal. But *Velociraptor* had more than speed. Its sharp claws and team attack made it very deadly.

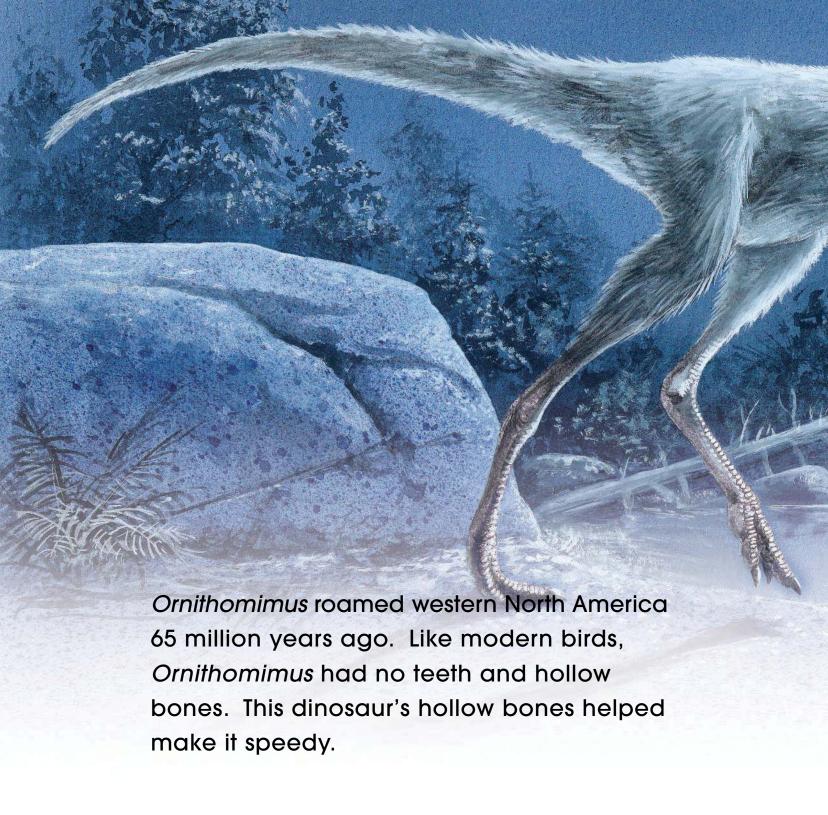


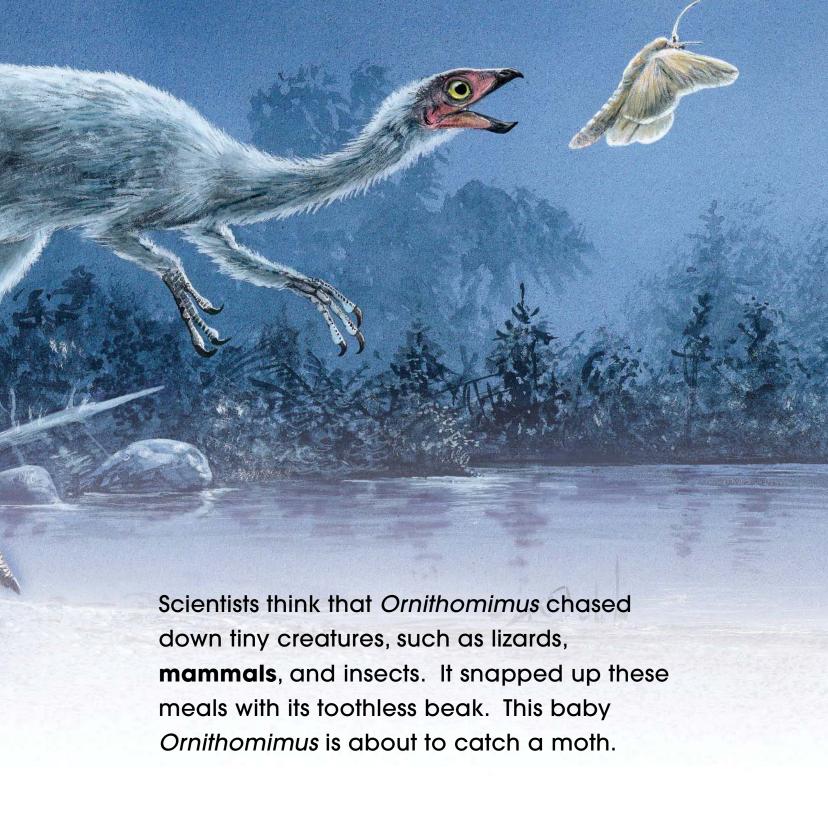
THE FASTEST OF ALL

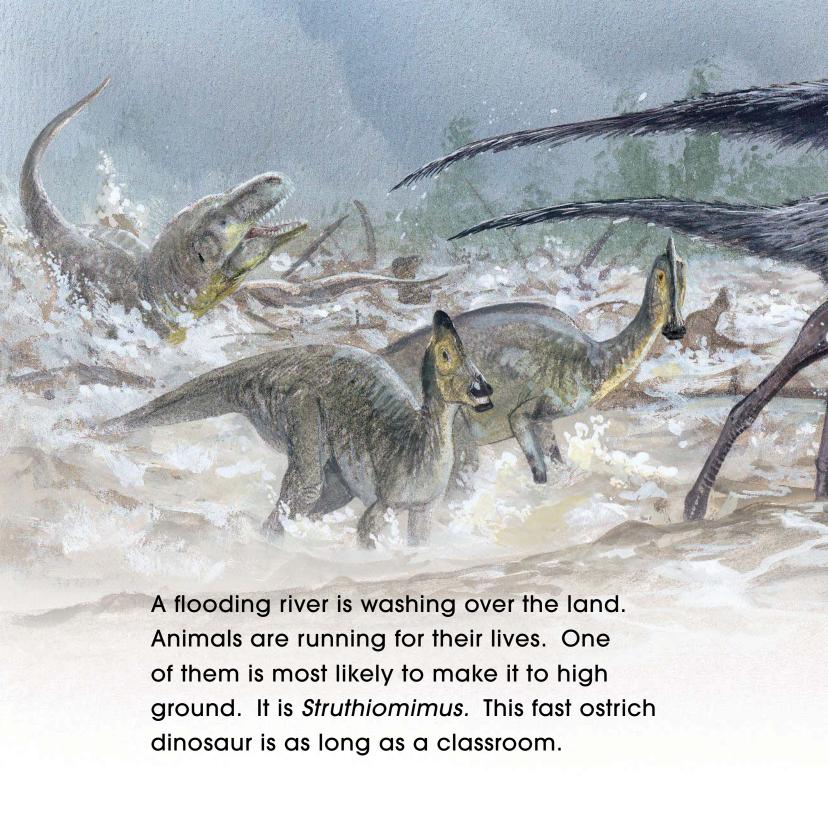
In Asia's Gobi Desert, *Gallimimus* are on the run from a sandstorm. These strange dinosaurs have thin claws and no teeth. They look like fast-running birds called ostriches. In fact, *Gallimimus* and their relatives are known as ostrich dinosaurs.

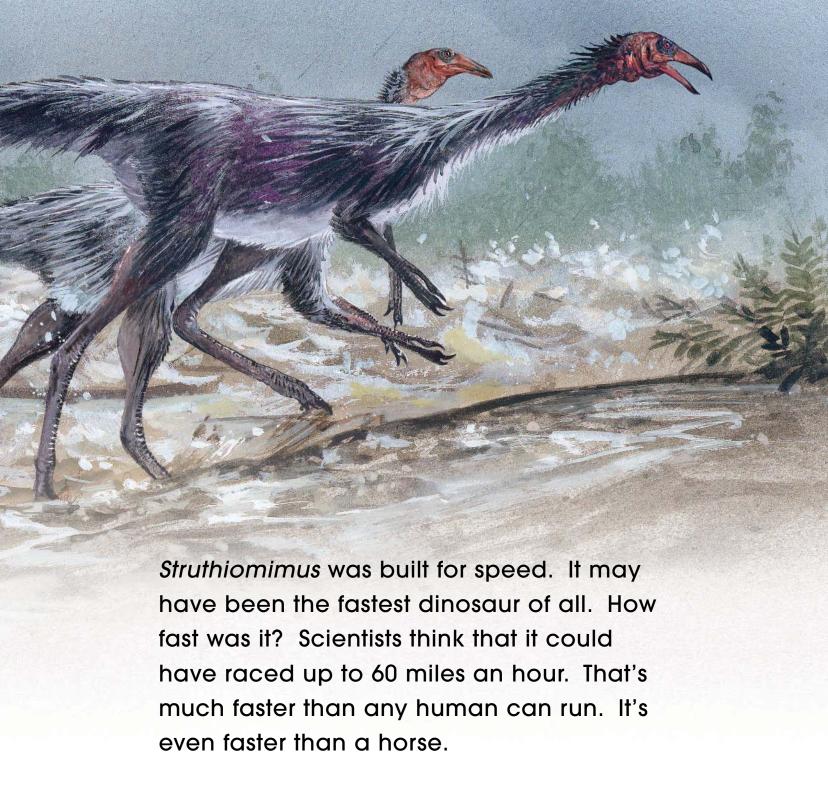


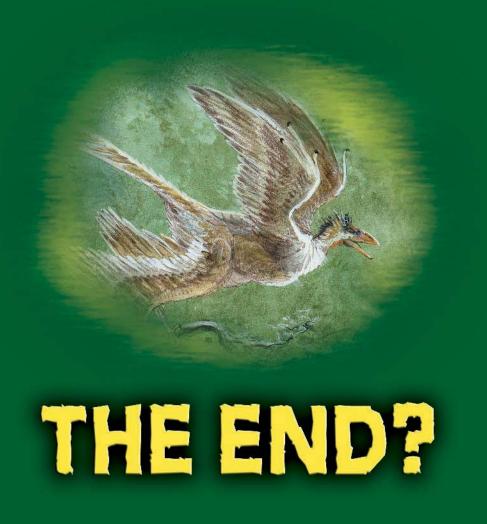
The ostrich dinosaurs are the fastest of all dinosaurs. *Gallimimus* are so fast that they will outrun the sandstorm and get to safety. Many slower dinosaurs will not escape.



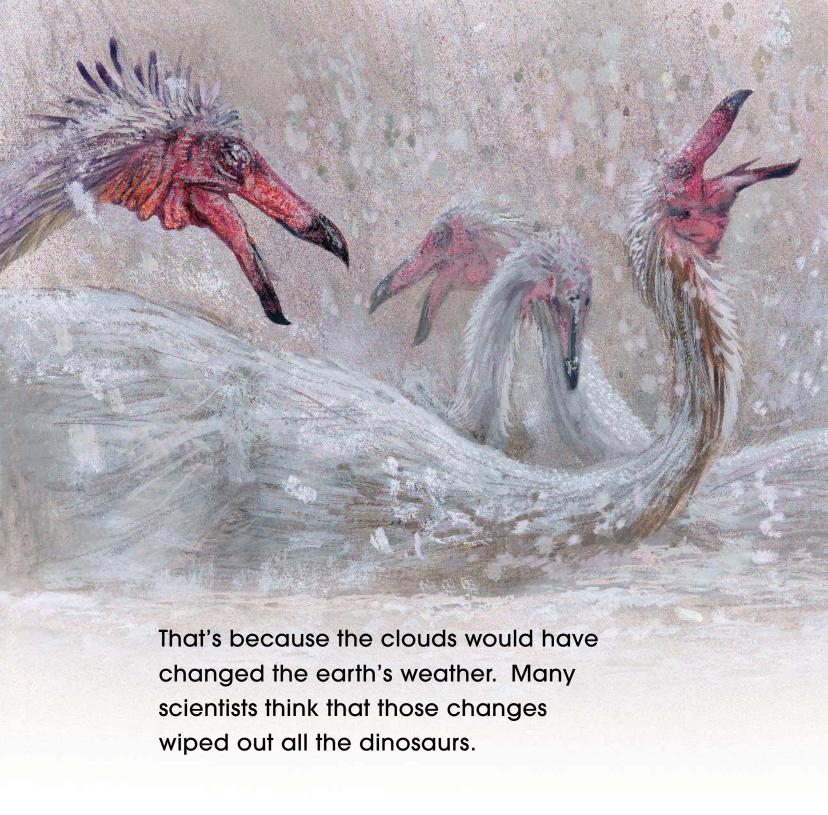


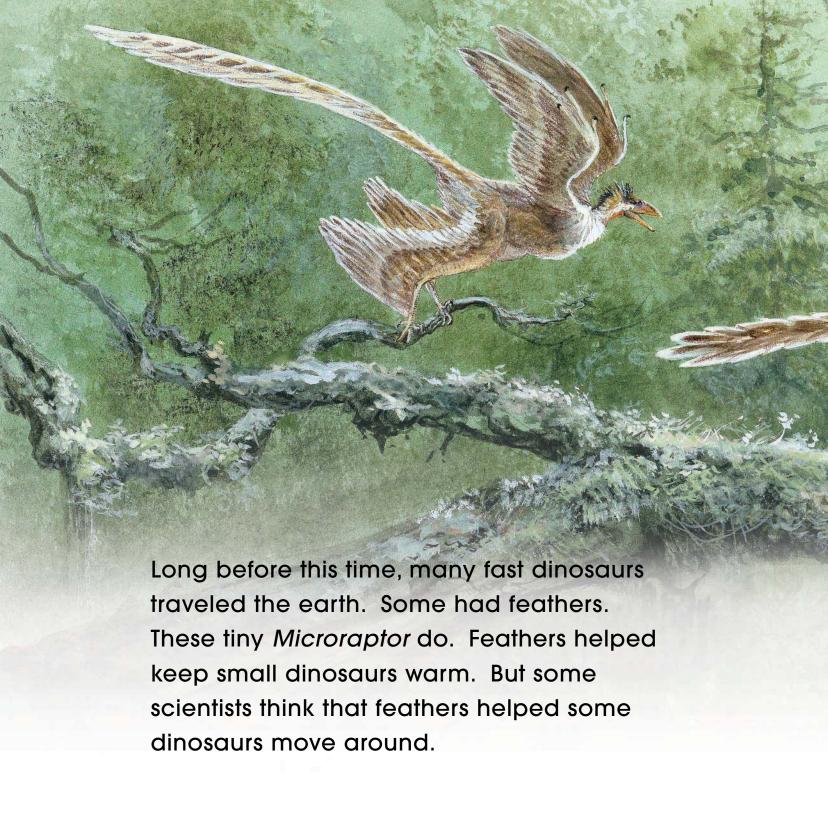


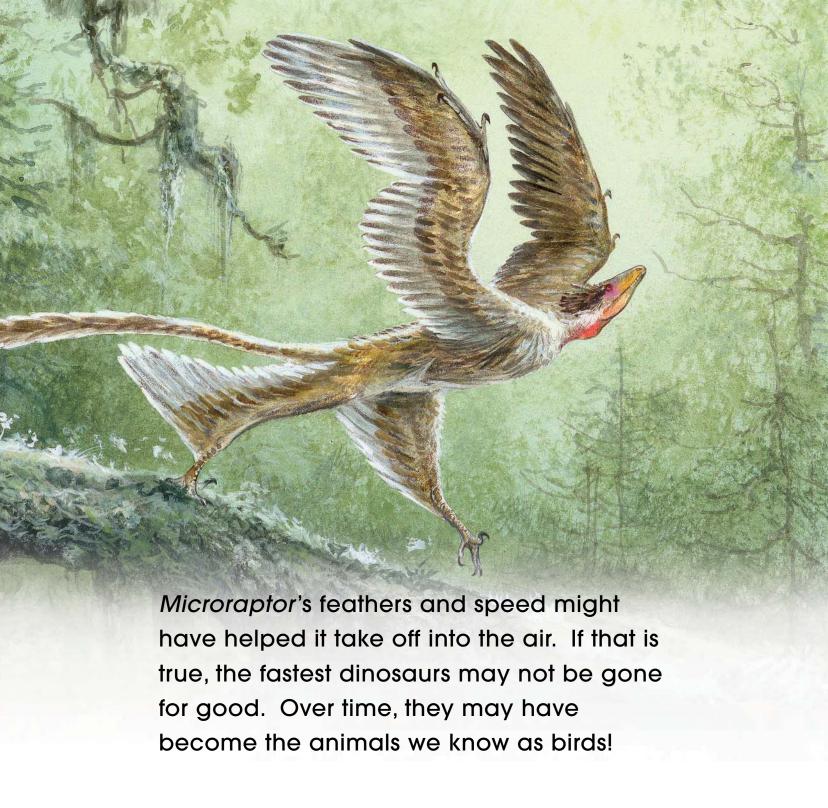




Many scientists think that a huge rock from space hit the earth about 65 million years ago. The crash would have raised clouds of dust and smoke. Dinosaurs could have run away from the clouds. But even the fastest could not have escaped.







GLOSSARY

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

mammals (MAM-uhlz): animals that feed their babies milk and have hair on their bodies

predator (PREH-duh-tur): an animal that hunts and eats other animals

prey (PRAY): an animal that other animals hunt and eat

the distance between an animal's footprints

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