

and other prehistoric giants

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DINOSAUS and other prehistoric giants

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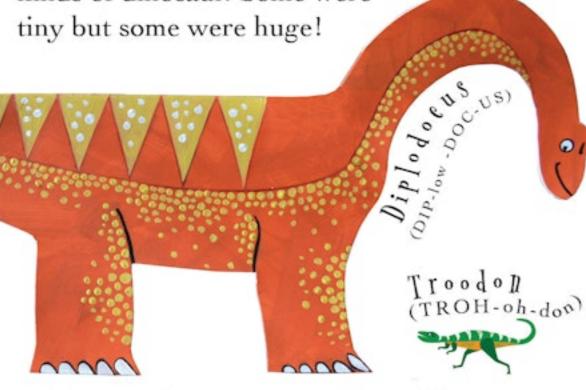
Consultant John Cooper

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What is a dinosaur?

Jinosaurs were **reptiles** that lived on Earth a long time ago. They had scaly skin like reptiles that live now: snakes, lizards and crocodiles. There were lots of different kinds of dinosaur. Some were tiny but some were buge!



Diplodocus was a plant-eating dinosaur. It was about 27 metres (88 feet) long and weighed about the same as a large truck. Troodon, a small dinosaur, was about 2.4 metres (7.9 feet) long and weighed about 45 kilograms (99 pounds).

When did dinosaurs live?

Jinosaurs lived on Earth between 230 million and 65 million years ago. This huge span of time is called the **Mesozoic** Era.



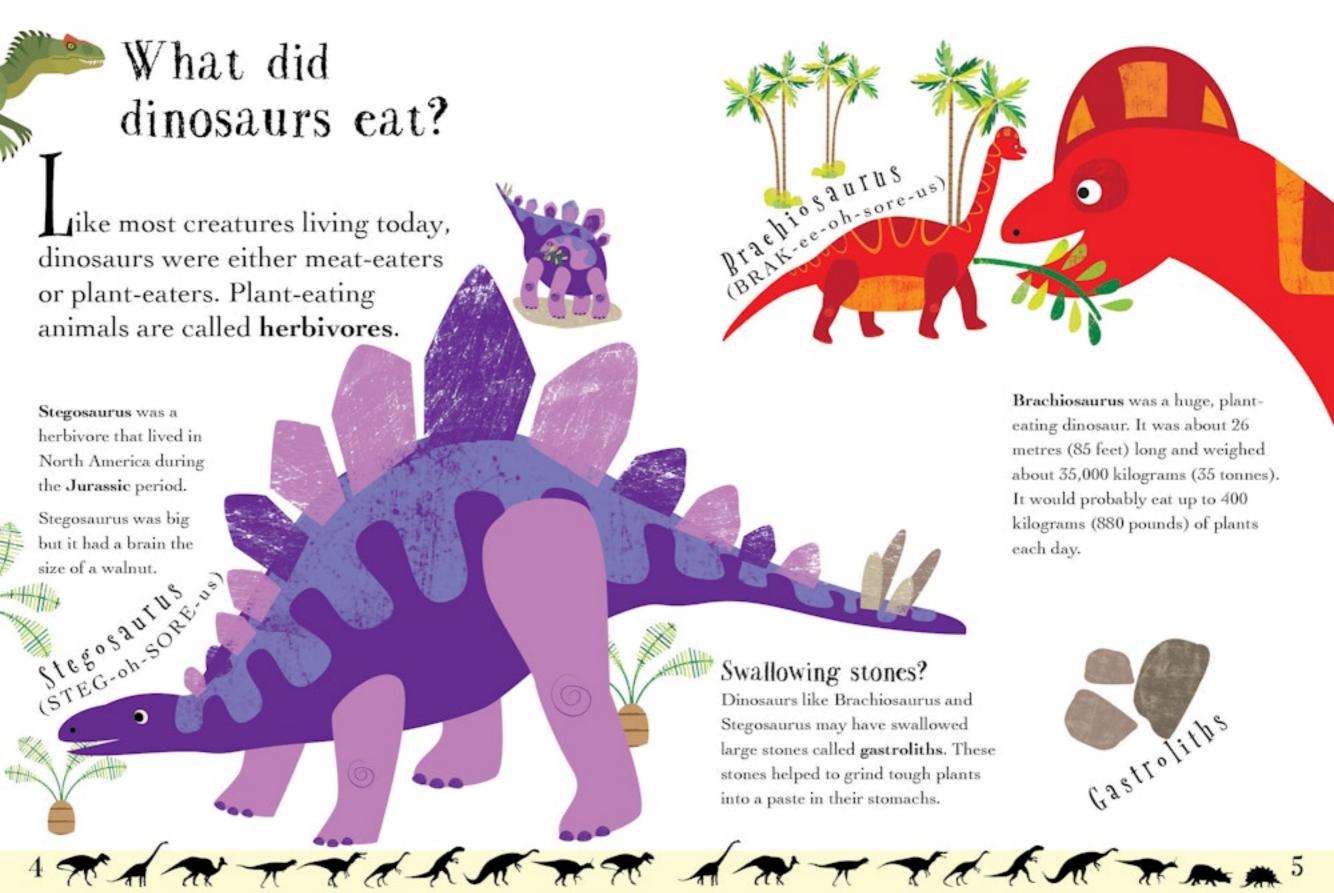
Other animals that lived in the Mesozoic Era

Many different animals, including insects, lizards, crocodiles, birds, furry mammals and fish lived during this time, too – but there were no people then.

Parasaurolophus

was a plant-eating dinosaur. It was about 10 metres (33 feet) long and its head crest was about the size of a man.







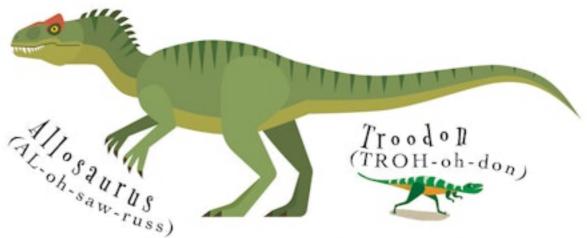
Did dinosaurs eat each other?

Yes. Huge meat-eating dinosaurs did hunt and eat other dinosaurs.

Meat-eating animals are called carnivores. Animals that eat plants and meat are called omnivores.

Albertosauruss)
(al-BERT-oh-saw-russ)
Albe

Albertosaurus grew up to 9 metres (30 feet) long and was about the same weight as a car. Albertosaurus was a carnivore that lived in North America in the late Cretaceous period. It had two small hands with only two fingers, a huge head and a mouthful of sharp teeth. Although big, Albertosaurus could run up to 32 kilometres per hour (20 miles per hour).



Allosaurus liked to eat large herbivore dinosaurs. It was a scavenger, so it fed on animals that were already dead. Scientists believe it may have fought with Stegosaurus.

King Tyrant

Tyrannosaurus rex means 'king tyrant lizard'. It was one of the largest meat-eating dinosaurs that ever lived. It weighed between 9000-14,000 kilograms (9-14 tonnes) and was larger than a bus.



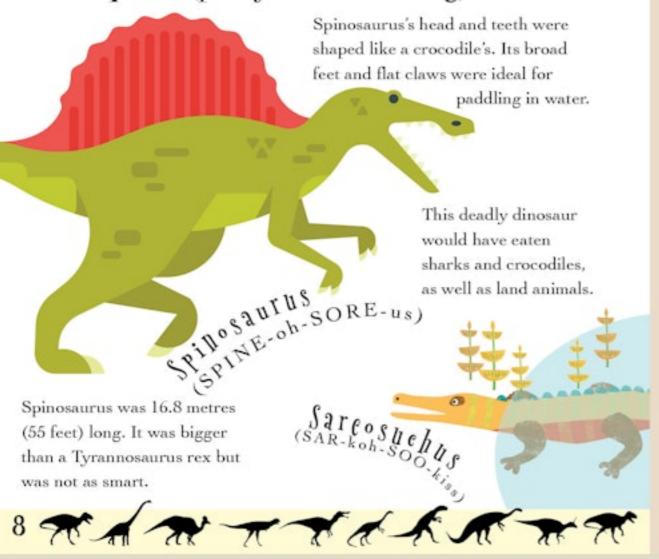
The skull of a Tyrannosaurus rex measured up to 1.5 metres (5 feet) long. The biggest Tyrannosaurus rex tooth ever found was 30 cm (12 inches) long! Troodon was probably an omnivore. As well as eating seeds, nuts and fruit, it also ate smaller animals and dinosaurs.

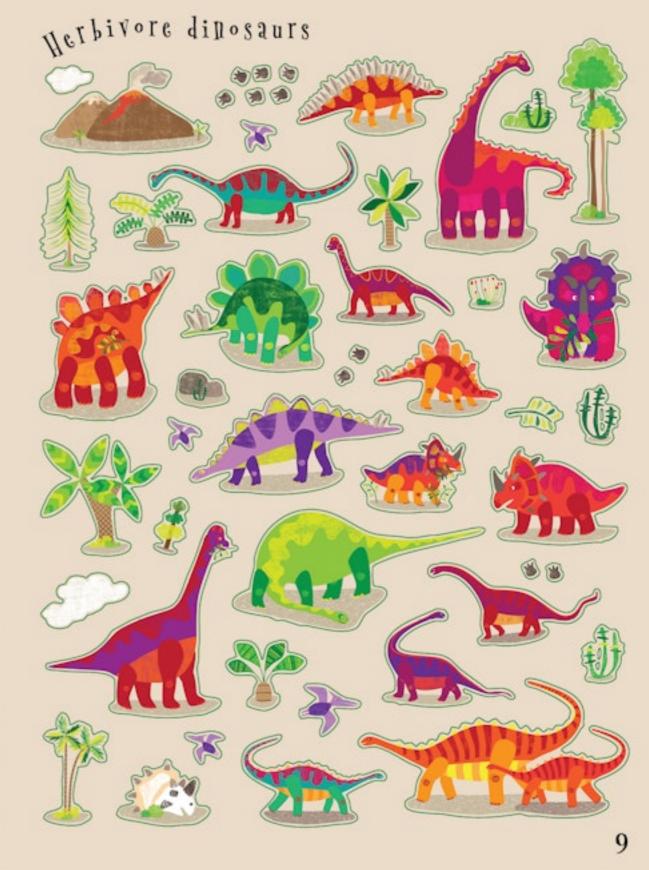


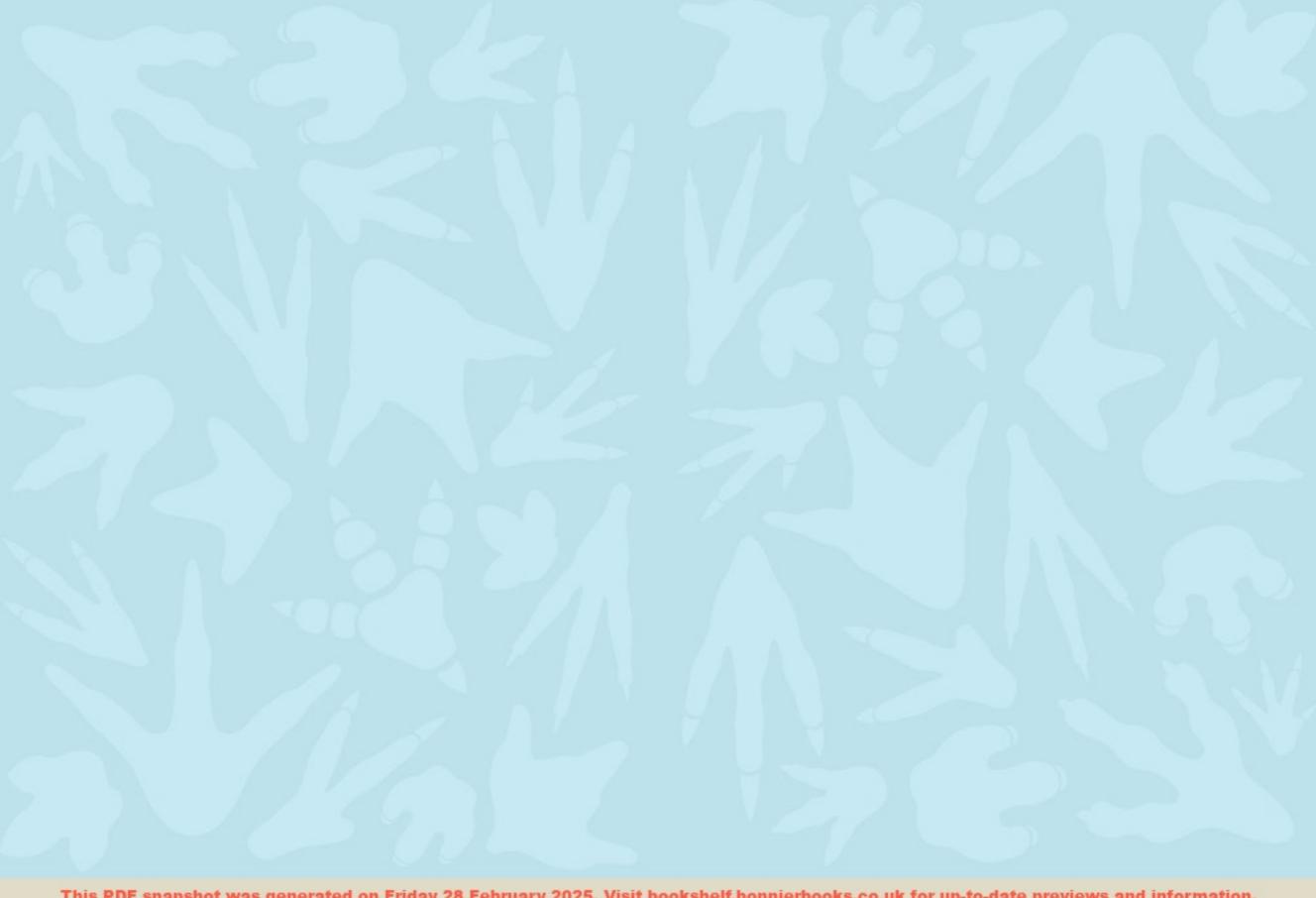


What was the deadliest dinosaur?

Dpinosaurus was the largest meat-eating dinosaur known to have existed. Unlike other dinosaurs, Spinosaurus must have been semi-aquatic (partly water-dwelling).



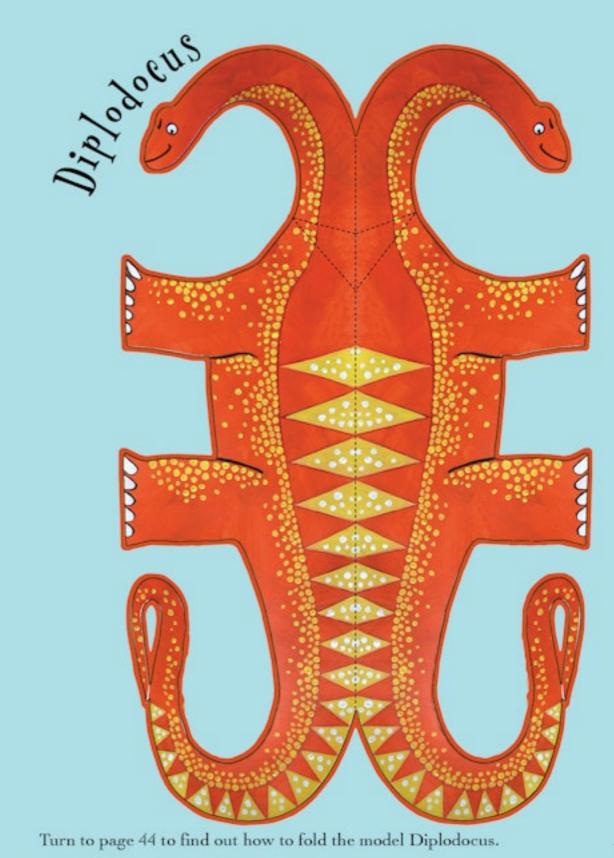


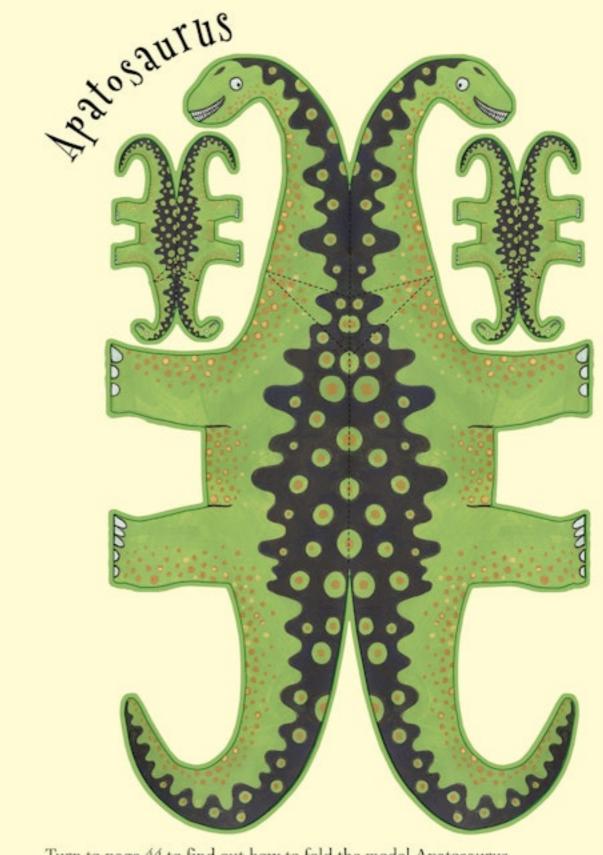


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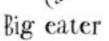
Turn to page 44 to find out how to fold the model Apatosaurus.

Were dinosaurs bigger than elephants?

es! Some dinosaurs were even bigger than buses. They were the biggest landliving animals on Earth.

Apatosaurus lived in the
Jurassic period and was one of the
biggest dinosaurs. It was about
23 metres (75 feet) long and
weighed about the same as four big
African elephants.

It took an Apatosaurus around 10 years to grow to its full size.

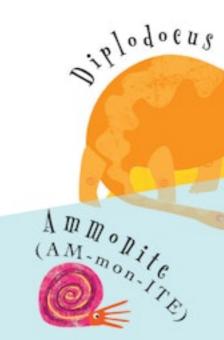


Apatosaurus was a plant-eater. It probably had to eat up to 400 kilograms (880 pounds) of food every day to survive.

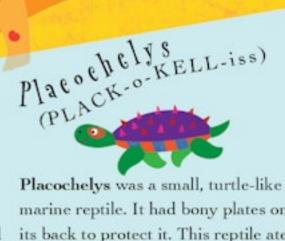
Did dinosaurs swim?

Jinosaurs could not swim, but they probably liked to cool off in lakes or rivers. Some reptiles that lived at the same time as dinosaurs, like plesiosaurs and ichthyosaurs, could only live in water.





Ammonites were molluses that lived in the sea. They scooted along by squirting water from their body to



marine reptile. It had bony plates on its back to protect it. This reptile ate shellfish and had strong jaws and teeth to crush the shells.



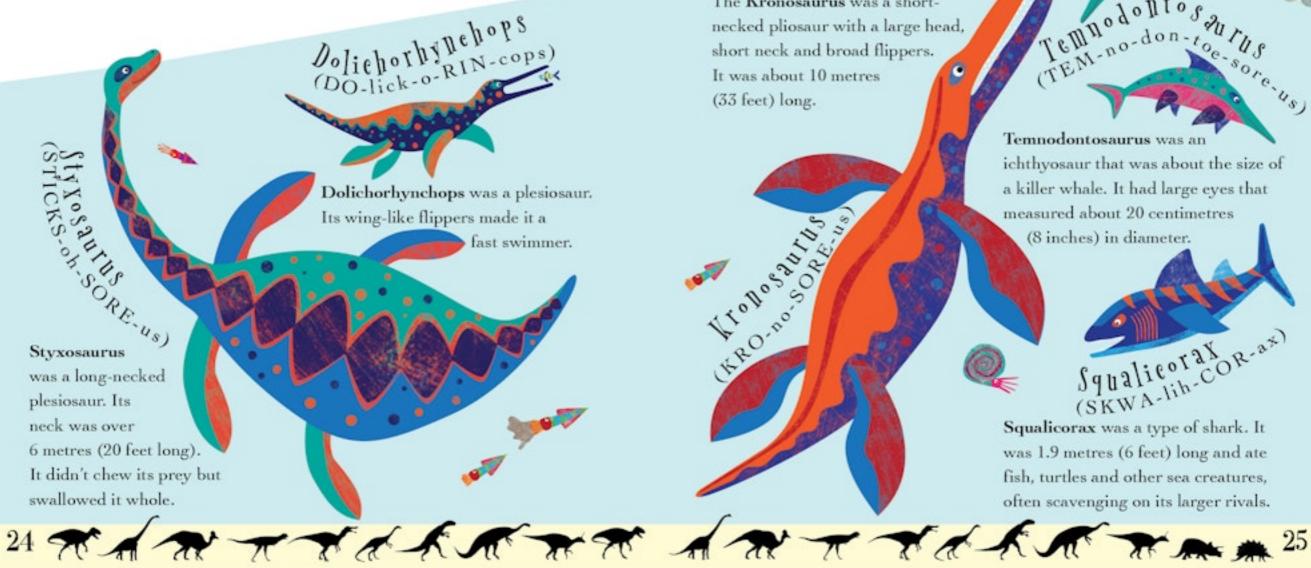
Ichthyosaurus looked like a fish but was a marine reptile. It was about 1.8 metres (6 feet) long. It did not lay eggs, but gave birth to live young.

Squid and fish were a major food source for Plesiosaurus and Ichthyosaurus.



What animals lived in water?

he ancestors of many of today's creatures such as alligators and sharks lived in the seas during the Jurassic and Cretaceous periods.



Deinosuchus was related to the modern alligator. It could grow up to 10.6 metres (35 feet) long and probably killed and ate dinosaurs, sea turtles, fish and other marine creatures.

The Kronosaurus was a shortnecked pliosaur with a large head, short neck and broad flippers. It was about 10 metres (33 feet) long.

> Temnodontosaurus was an ichthyosaur that was about the size of a killer whale. It had large eyes that measured about 20 centimetres

(8 inches) in diameter.

Temnodon TEM-no-don

Squalicorax (SKWA-lib-COR-ax)

Squalicorax was a type of shark. It was 1.9 metres (6 feet) long and ate fish, turtles and other sea creatures, often scavenging on its larger rivals.



Pterodaetylus (ter-oh-dak-til-us)

Pterodactylus means 'winged finger'. This is because its wing was joined to a long fourth finger on each of its arms. Some species of pterosaurs had a furry coating on their wings, but pterodactylus did not.



Tapejara had a head crest that could be up to 1 metre (3 feet) tall.



Did dinosaurs fly?

Jinosaurs could not fly, but a group of reptiles alive at the same time called **pterosaurs** could. They had wings made of skin and fur. Pterosaur means 'winged lizard'.



(SOR-dez)

Sordes only weighed about 450 grams (one pound). Its body was covered in fur.

Did dinosaurs have feathers?

3 metres (10 feet). It mainly ate shellfish.

Yes. Fossil remains show that many dinosaurs did have feathers.



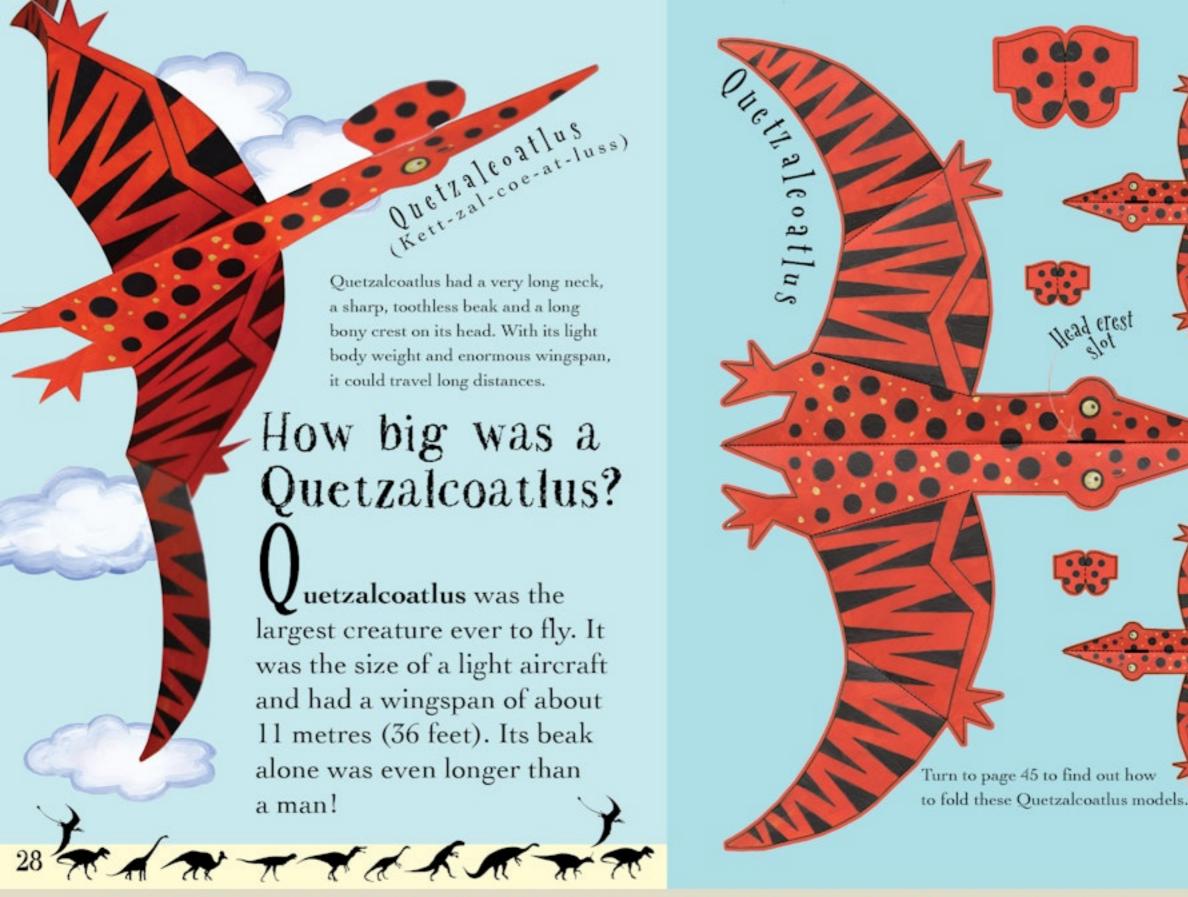


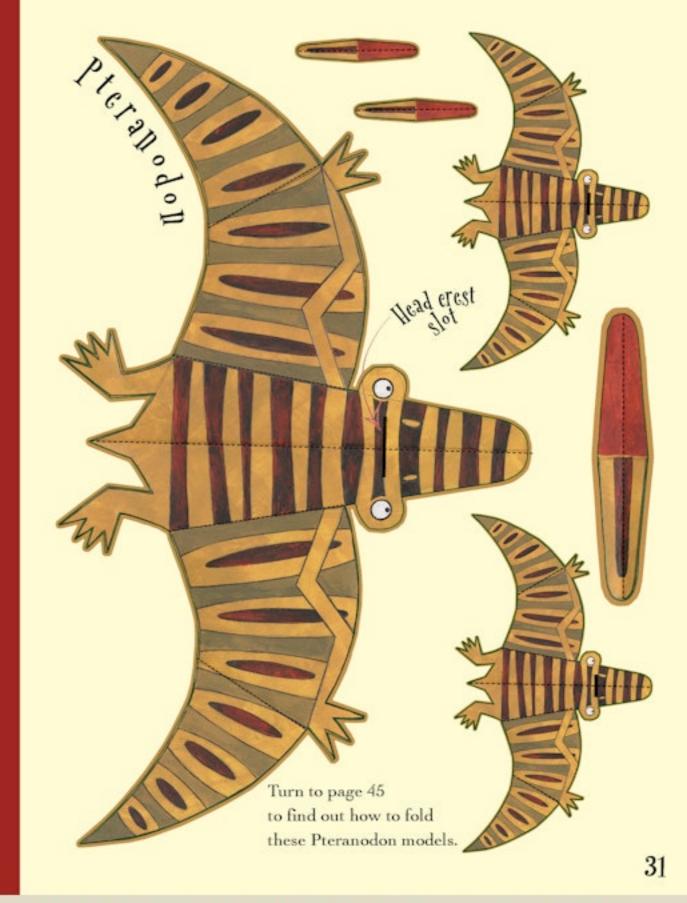












Did dinosaurs lay eggs?

Maiasaura, laid eggs just like birds and reptiles do: they simply scooped out a hole in the ground to make their nest.

The first fossilised dinosaur eggs were found in Mongolia, China, in 1923. They were **Oviraptor** eggs and about the size of a big

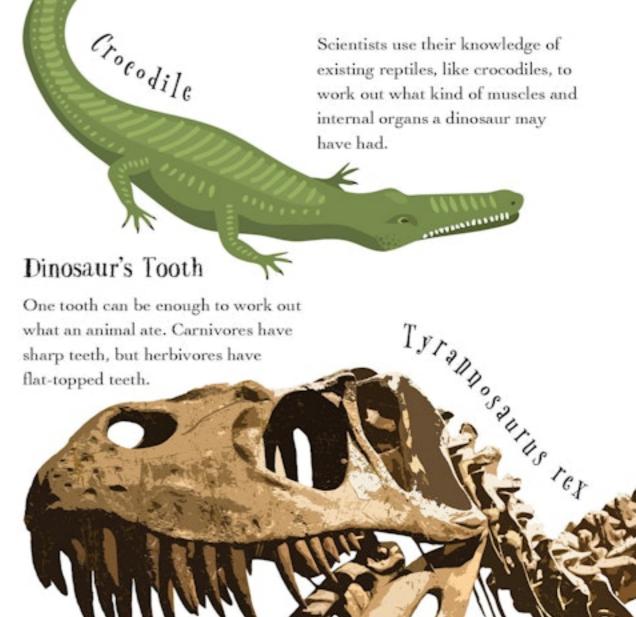




Did dinosaurs have bones?

es! Dinosaurs did have bones. This is how scientists study dinosaurs. The soft parts of an animal's body rot when it dies. Most dinosaur fossils are the remains of hard body parts like bones and teeth, as well as eggshells and gastroliths.





Tyrannosaurus rex had over 60 thick.

cone-shaped teeth - great

for crunching bones!

Grrr!

How do we know about dinosaurs?

Ucientists study pieces of fossilised dinosaurs so they can work out what a dinosaur may have looked like. The size of one single bone can be a clue to how big the whole dinosaur may have been.

to reveal its bones. The bones are carefully removed and transported to a museum. Scientists and artists try to work out what the dinosaur looked like, its size, what it ate and how it moved. esosaurus RE-us) Diplodoeus DOCK-us (pa-ra-saw-ROL-off-us) Tyrannosaurus reg (tie-RAN-oh-sore-us rex) Riotoccratops

Riotoccratops) Velocitaptor

Palaeontologists clear away the

rock surrounding a dinosaur fossil

All these dinosaurs and

drawn to the same scale.

pterodactylus are

Parasaurolophus

Why did the dinosaurs disappear?

Jinosaurs suddenly disappeared forever, 65 million years ago. How did this happen? Scientists believe that they were wiped out when a giant **meteor** – a chunk of rock from outer space – smashed into the Earth, causing a huge explosion and a rise in volcanic activity.





Why did the dinosaurs die?

Gigantic dust clouds and fumes caused by the meteor's impact and volcanic eruptions clogged up the skies. This blocked out all the heat and light from the sun. The planet was plunged into a cold darkness that probably lasted for months or even years.



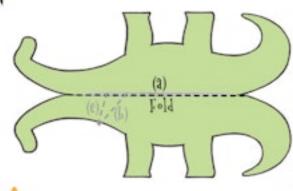
Without warmth and light, all plants stopped growing and died. With nothing left to eat, the plant-eaters starved and died. The meat-eaters would have eaten the dead planteaters. Once there was nothing left for them to eat – they died, too.

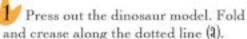


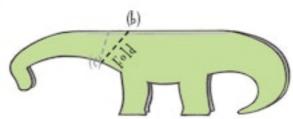


Folding The Models

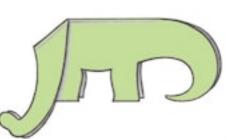
Diplodocus and Apatosaurus (pages 17 and 19)



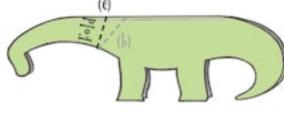




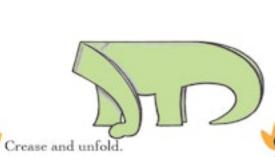
2 Fold the dinosaur's neck along the dotted line (b).



Crease and unfold.

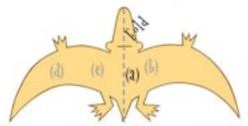


Fold the dinosaur's neck along the dotted line (6).

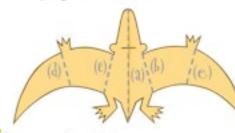


6 Carefully push the dinosaur's neck folds inwards (as shown). You may want to ask an adult to help. Use PVA glue to stick together both sides of the dinosaur's head, and the end of its tail.

Pteranodon and Quetzalcoatlus (pages 29 and 31)

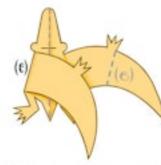


Press out the Pteranodon model. Fold in 2 Crease and unfold. half along the dotted line (3).

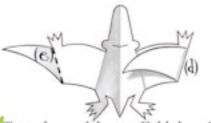




Fold back the right wing along the dotted \(\frac{4}{F}\) Fold back the left wing along the dotted line (b) (as shown). Crease and unfold.



line (f) (as shown). Crease and unfold.



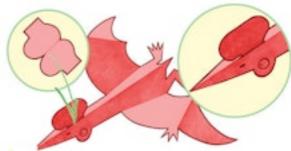
Turn the model over. Fold the wings back along the dotted lines (d) and (e). Crease both lines and unfold.



6 Turn the model over again.



Fold the Pteranodon's head crest along the dotted line. Slide the crest into the slot (as shown).



8 The Quetzalcoatlus is folded in the same way. The head crest is folded and inserted into the slot (as shown).





Did you know?

Dromiceiomimus could run up to 60 kph (37 mph) and looked like an ostrich! It was one of the fastest dinosaurs ever.

The longest name for a dinosaur so far is Micropachycephalosaurus.

Seismosaurus, the longest dinosaur, measured over 40 metres (131 feet). That's as long as 5 double-decker buses parked in one line.

So far over 700 different species of dinosaur have been discovered! Scientists believe there are still many more to find.

Many plant-eating dinosaurs had natural weapons to help them fight meat-eaters. **Triceratops** had three horns on its head shield and **Kentrosaurus** had spines along its back and tail.

Tricel atops

The smallest dinosaur was Compsognathus. When fully grown it was only the size of a chicken.

Many of the biggest plant-eaters ate up to 1,000 kilograms (one tonne) of food a day – that's like eating a pile of vegetation the size of a bus.

The smallest dinosaur egg was only 3 centimetres (1.2 inches) long. The largest eggs were 48 centimetres (19 inches) long.

Therizinosaurus had the longest claws of any dinosaur, they were about 1 metre (3 feet) long.

Dinosaurs lived on every continent, including Antarctica.

The biggest dinosaur skulls were as long as a car.



Glossary

carnivores meat-eaters.

Cretaceous the period from 146 to 65 million years ago. Dinosaurs disappeared at the end of this period.

F fossilised the remains of a dead animal or plant, naturally preserved in the ground.

gastroliths stones swallowed by an animal to help grind up its food.

H herbivores plant-eaters.

ichthyosaurs fish-like, swimming reptiles.

Jurassic the period from 208 to 146 million years ago.

M
Mesozoic the period from 248 to 65
million years ago.
meteor a rock from space that hits

the atmosphere of the Earth.

molluscs soft-bodied animals without skeletons. Some molluscs have shells.

omnivores creatures that eat both plants and meat.

oviraptor small, birdlike dinosaur.

palaeontologist a scientist who studies fossils.

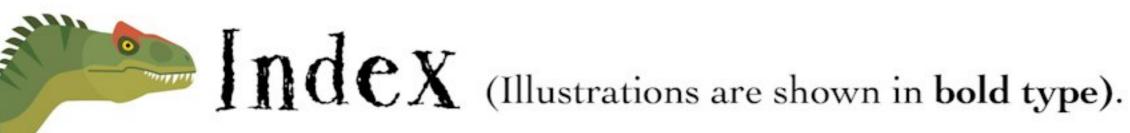
plesiosaurs long-necked, swimming reptiles.

pterosaur a type of flying reptile from the time of the dinosaurs.

reptiles animals that lay eggs and use the heat of the sun to keep their blood warm.

S
scavenger an animal that feeds on
dead animals it hasn't killed itself.
semi-aquatic to live partly on land
and partly in water.

V volcanoes mountains with a hole at the top that sometimes spews out rocks, lava, ash and steam.



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Additional illustrations: Carolyn Scrace, David Stewart, Betty Branch and Shutterstock.