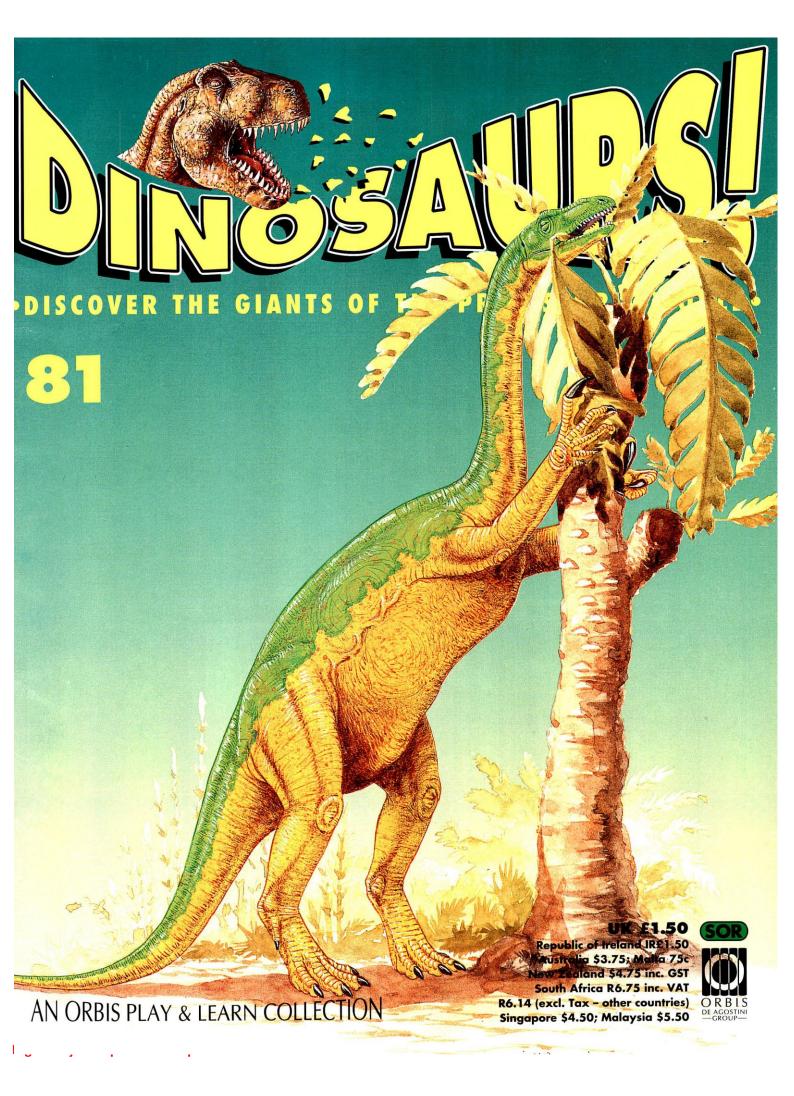
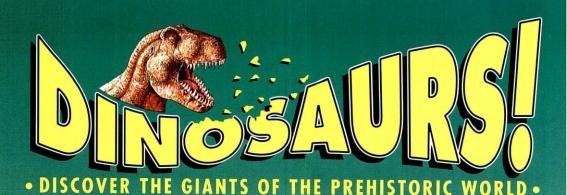
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1925



KANNEMEYRIA

Meet a plant-eating dinosaur and two other prehistoric creatures **ANCHISAURUS** 1921 PYROTHERIUM 1924



Walk in Jurassic North America in DINOSAUR SAFARI 1926



Find out how pterosaurs feed in PTEROSAUR HEADS 1934



What happened to the remains when a dinosaur died? Discover the grisly truth in PREHISTORIC **SCAVENGERS** 1936



Read all about a great discovery in HIP, HIP, HOORAY 1940



DACENTRURUS is this week's challenge for dino artists 1944



Dr David Norman of Cambridge University answers more of your dinosaur queries BACK COVER

PLUS



Anchisaurus keep together to try and scare off predators 1930



Leaellynasaura hunt for food in Late Cretaceous Australia



More fascinating trivia and the weekly quiz 1942

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ANCHISAURUS

This small plant-eater was one of the first dinosaurs to be discovered in North America.

bout 210 million years ago, in the Early Jurassic Period, herds of *Anchisaurus* plodded across the lake shores in search of food. They were some of the earliest planteating dinosaurs on Earth. These peaceful grazers probably feasted on the early

horsetails and ferns that flourished by the edge of the water.

UP AND DOWN

Anchisaurus had a front-heavy body — so it probably walked on all-fours as well as on two legs. The dinosaur may have reared up on its hind legs to reach the plant tops. It probably used its short front legs to steady its long, heavy body when it was on the move. Anchisaurus would have held its large thumb claws off the ground to stop them getting damaged.

ANCIENT SAUROPOD

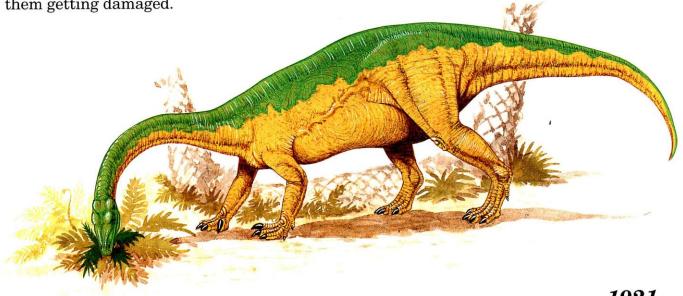
The long-necked *Anchisaurus* was a prosauropod – a primitive version of the giant sauropods such as *Brachiosaurus*, which lived millions of years later.

TIP TOP

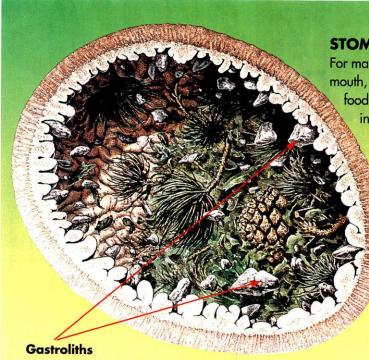
Anchisaurus was one of the first dinosaurs to be able to crane its neck upwards to find more food. Other plant-eaters living at the same time were short, stocky creatures with short necks. They were unable to reach the tender green shoots that grew higher up. But Anchisaurus could always find plenty of juicy leaves to eat.

SHARP TEETH

Anchisaurus had saw-edged, pencil-shaped teeth. It used them to shred the leafy twigs and ferns it fed on. The dinosaur probably stuffed the plant pieces into its mouth with its hands, so that nothing fell out while it was eating.







STOMACH CHURNING!

For many dinosaurs, digestion started in the mouth, with chewing. First, the teeth ground food into a pulp, then special digestive juices in the mouth acted on the food, making it easier for the stomach to digest. But some of the plant-eating sauropods including Anchisaurus - swallowed their food in larger chunks. They could digest it in their stomachs because they swallowed gastroliths (stomach stones) - see the cross section of a dinosaur's stomach, left. As the muscles churned the food in the stomach, the stones helped grind it. Today, many animals, including ostriches, use this method.

IT'S A GRIND

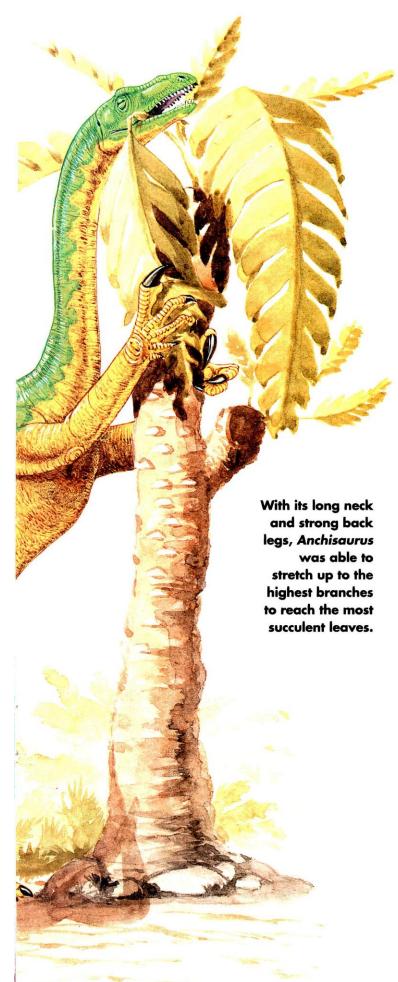
Plant-eaters have to devour a lot of food to fuel their bodies with energy. *Anchisaurus* must have had an extremely large stomach to digest all that plant material. Like other herbivores, *Anchisaurus* may have swallowed small pebbles, known as 'stomach stones', to help it digest its food. The stones pressed down on the plant bits during digestion, and helped grind them into pulp more quickly.

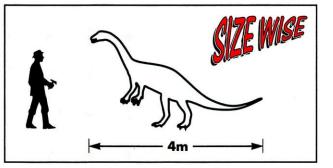
MONSTER FACTS

- NAME: Anchisaurus (an-ki-sore-us) means 'near lizard'
- GROUP: dinosaur
- SIZE: 2 4m long
 FOOD: plants
- LIVED: about 210 million years ago in Early

Jurassic North America







BAND AID

Fossil footprints show that *Anchisaurus* moved about in herds. They probably banded together for protection. Big meateaters, such as *Dilophosaurus*, were less likely to attack a large group of animals, and twenty pairs of eyes were better than one for spotting potential predators.

ON THE RUN

Anchisaurus was as long as a man is tall, but lighter. It was probably fairly fast on its feet and might have outrun a hungry carnivore. If the plant-eater was cornered, it could have struck out with its great curved thumb claws to defend itself.

IT'S A FACT

MIX UP

Anchisaurus was probably America's first known dinosaur. But it was not correctly identified for about 100 years. The first fossil was found in 1818, but it was thought to be part of a human skeleton. It wasn't until 1855 that experts realised it was part of an animal. It was then reclassified as a dinosaur. It was finally identified as Anchisaurus in 1912.



PYROTHERIUM

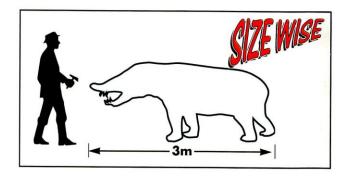
Pyrotherium looked like a large elephant, with tusks and a long nose.



he fossils of *Pyrotherium* were discovered in beds of ancient volcano ash. So it was named the 'fire beast'

MIGHTY ROOTER

Pyrotherium was a plant-eater like today's elephant. But instead of having just one pair of tusks, it had a range of chisel-shaped tusks to help it feed. Pyrotherium probably used its odd-looking tusks to root up tasty bulbs and shoots.



INVASION

When animals from North America moved in, they drove *Pyrotherium* out.

Pyrotherium died out because it was not as successful at hunting for the same food.

SPLENDID ISOLATION

The big plant-eater was one of many prehistoric animals that evolved in South America. Because the continent was cut off from the rest of the world by sea, these animals developed successfully away from many other animals. But things changed when North and South America became joined two million years ago.

MONSTER FACTS

- NAME: Pyrotherium (py-ro-thee-ree-um) means 'fire beast'
- GROUP: mammal
- SIZE: 3m longFOOD: plants
- LIVED: about 35 million years ago in the Oligocene in South America





KANNEMEYRIA

This huge mammal-like reptile was as big as a hippopotamus.



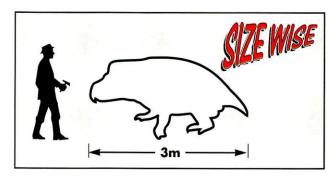
annemeyria belonged to one of the most successful groups of mammal-like reptiles – the dicynodonts.

BIGGER AND BETTER

The bulky plant-eater was fatter than today's hippopotamus. It had a gigantic, barrel-like rib cage, which gave lots of room for a long gut. Its head was huge, too, but it was lightly built so that it could move around. There were large openings in its skull for its massive jaw muscles.

TEARING AND SHREDDING

Kannemeyria probably ate rather like today's turtle. It sheared through its food with its sharp-edged jaws. Strong muscles helped it cut and chew tough stems and roots. It probably tore up huge mouthfuls of plants with its horny beak.



MONSTER FACTS

- NAME: Kannemeyria (kan-ah-may-er-ee-a)
 means 'from Kannemerer'
- GROUP: mammal-like reptile
- SIZE: up to 3m long
- FOOD: plants
- LIVED: about 220 million years ago in the Early Triassic Period in South America, South Africa, India and Russia





Dinosaur safari Jurassic North America

Imagine you are in North America, somewhere in Wyoming. But what you can see aren't wheat prairies and the foothills of the Rocky Mountains. You are there in Late Jurassic times!

ur safari begins 150 million years ago on a dusty plain. Away to the north, near where the United States/Canadian border now lies, there is a shallow inland sea. It used to be much bigger. The plain is its dried-up bed. There are still lakes here and there, and streams trickle down from the Rockies.

WHERE DINOSAURS DRINK

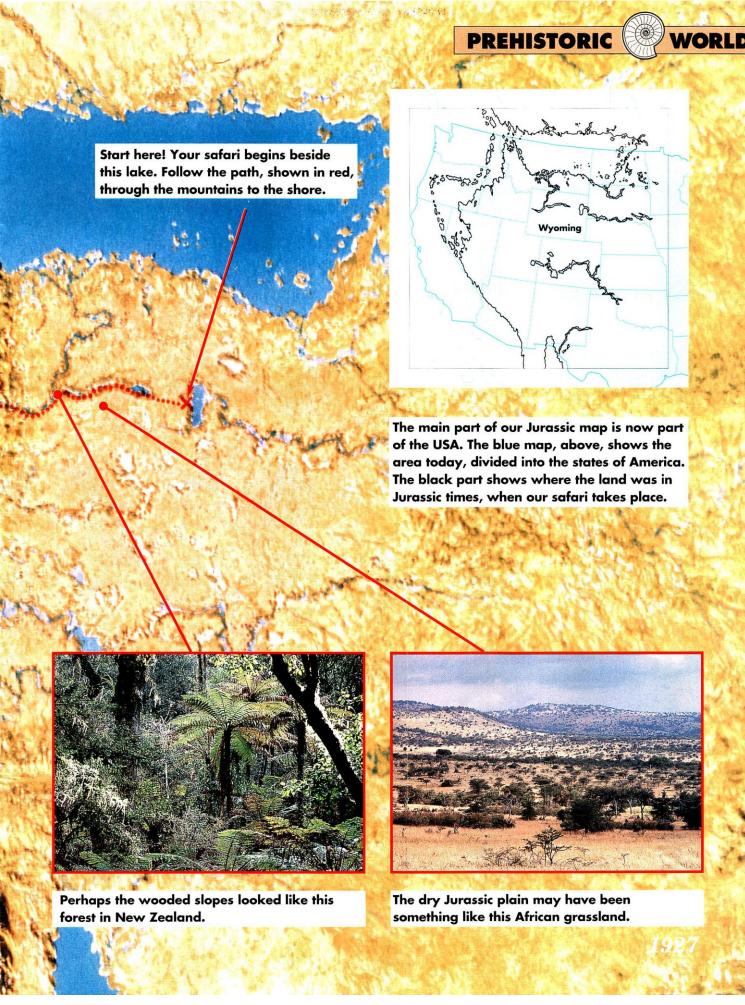
You are standing beside one of the lakes. The shore has been churned up and you can see huge footprints. This is the dry season and the lake has almost dried up. When the rains start, the streams will flow faster and the lake will fill up again.

BIG SAUROPOD COUNTRY

Despite the lack of rain, the banks of the stream are thick with vegetation. As you walk upstream towards the highlands, you catch glimpses of the animals that made the gigantic footprints along the edge of the lake. This is the country of the sauropod. Huge dust clouds signal where herds of *Apatosaurus* are travelling from one feeding ground to another. They keep together in tight groups in case they are attacked by big meat-eaters, such as *Allosaurus* or *Ceratosaurus*.



The volcanic islands off the coast probably looked like this island.





TALL FEEDERS

Here and there, on the wooded river banks, you can see herds of *Diplodocus*. They rise up on their hind legs, reaching their long necks high up into the trees to eat. The trees are bare of branches up to the highest point the sauropods can reach. Occasionally, you catch glimpses of other sauropods, such as *Brachiosaurus*. *Camarasaurus* lives here too.

HERE COMES THE RAIN

As you continue your journey, the wet season begins and the rains fall. Ferns spring up in the open areas between the streams. The cycads put out new bunches of palm-like fronds on top of their barrelshaped trunks. The sauropods are still on the move, enjoying the fresh vegetation. And you can see many other animals out looking for food.

The scene below shows the sort of countryside that you will be journeying through after the rains fall. Remember to keep an eye out for the meat-eaters!

A BEAST OF OPEN COUNTRY

In the distant open spaces, you see the jagged silhouette of a *Stegosaurus*. This plated plant-eater prefers the drier open spaces. Out in the open, its plates will not become entangled in branches, and the wind can keep its massive body cool.

SMALLER CREATURES

Pterosaurs sweep down, screeching over your head. They probably think you are a small, but dangerous, meat-eating dinosaur. There are some dinosaurs living here that are just your size. Swift and ferocious *Ornitholestes* and *Coelurus*, for instance. Watch out for them! These two-legged predators can run very fast, and can catch their victims in long, clawed fingers and sharp teeth.

TO THE HILLS

After many days' travel you see the mountains ahead, and you start to climb into the foothills. The scenery changes completely. Now you are walking up wooded hillsides. Great tree ferns, covered with creepers, tower above you.



HIDDEN ANIMALS

Animal life is different here, too, but you cannot really see it. It is hidden in the thick undergrowth. Some plants have thorns more than 2cm long. They probably protect the plants against big browsing animals! More than once, however, you come across a great armoured ankylosaur feeding in a clearing. It is difficult to say what kind it is, but it is quite primitive.

OVER THE MOUNTAIN...

At last you come to the mountains. Pterosaurs soar around the peaks, but, apart from them, there is very little animal life. Slowly, you make your way through the mountain passes. Then you begin to descend towards the ocean.

...AND DOWN TO THE SEA

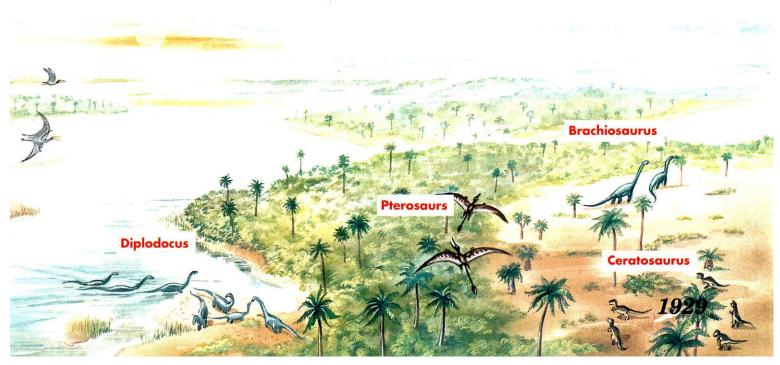
Again, you pass through wooded foothills. But now, through the leaves, you catch a glimpse of water ahead of you. You can even see a string of islands, with smoking volcanoes. This is where the edge of the continent is being crushed and pushed up to form mountains.

that ankylosaurs lived during the Jurassic?

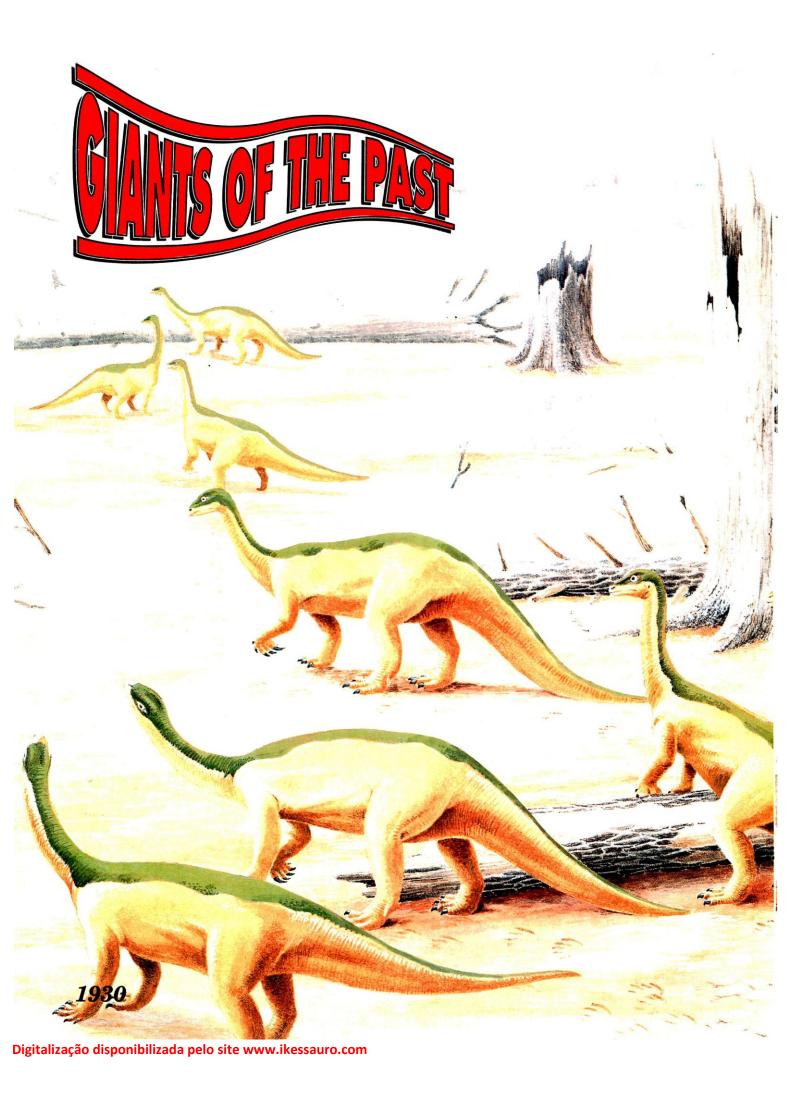
In recent years, ankylosaur fossils have been found in the Morrison Formation, which is made up of layers of rock stretching along the foothills of the Rockies, from Montana to New Mexico. The muds, sands and gravels which formed these rocks were laid down by streams running across a plain in Late Jurassic times. Some of the best dinosaur skeletons have been found here. The ankylosaur fossils were not very well preserved and scientists think they were washed down from the uplands, where these beasts lived.

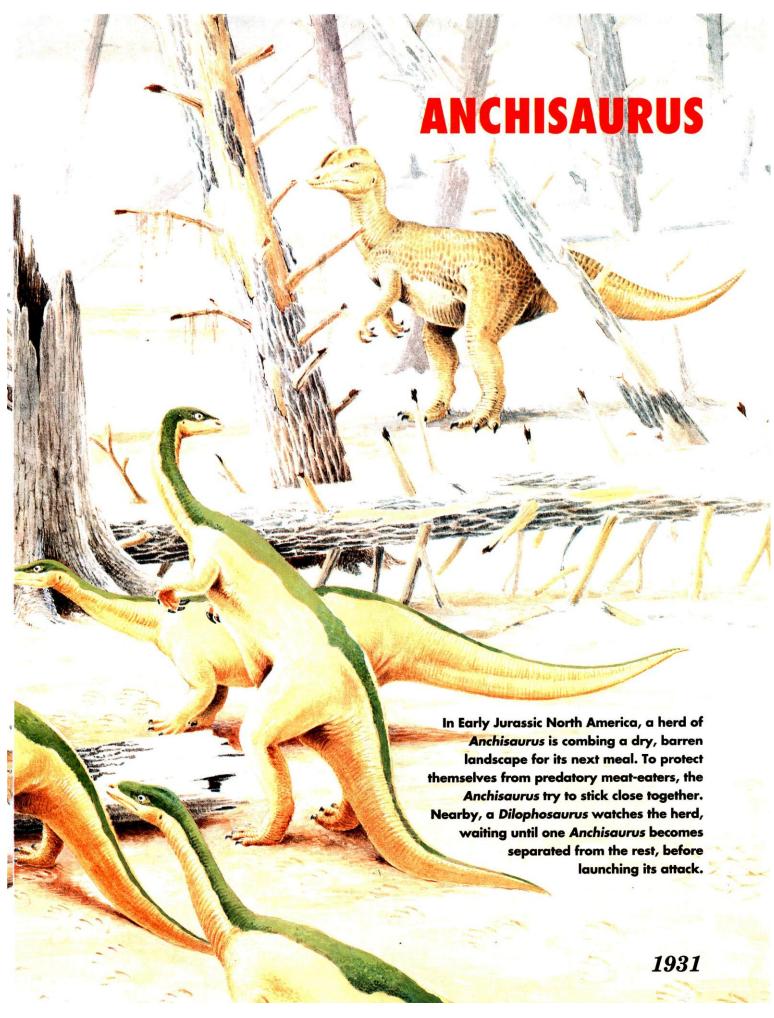
THE OCEAN

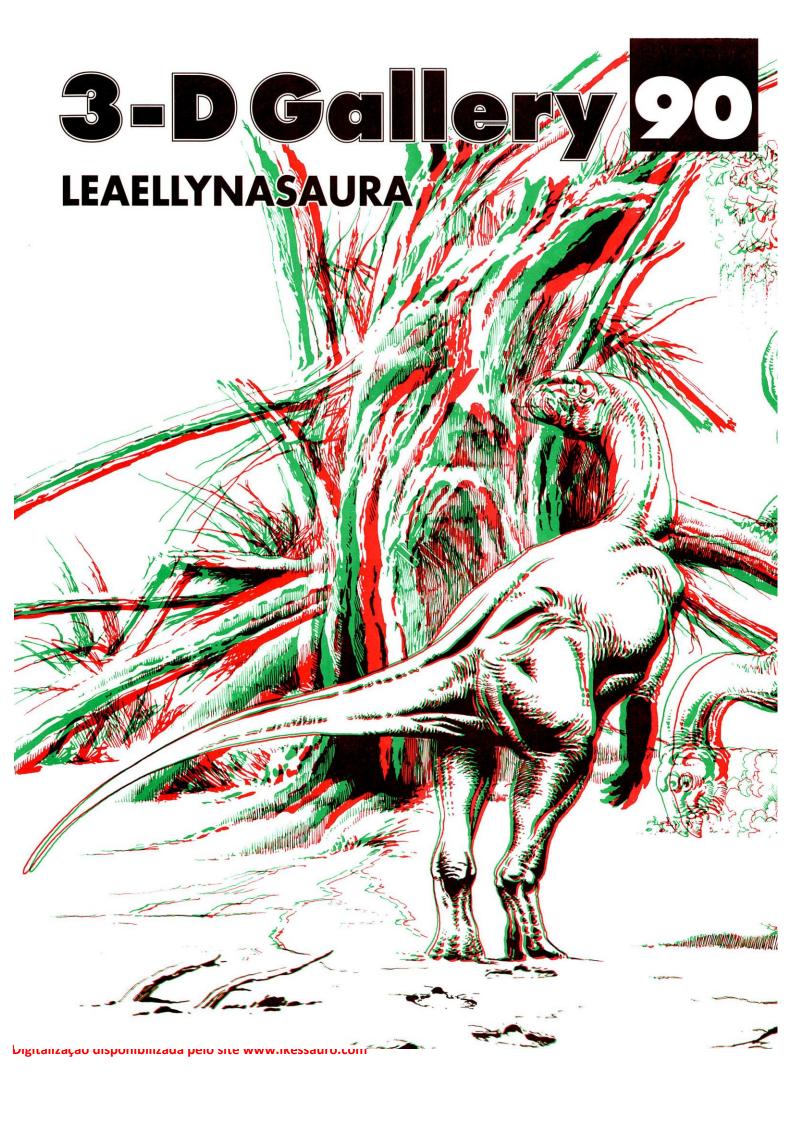
The coastline is cluttered with islands. The offshore islands are gradually being welded to the edge of the continent, making it bigger. At the bottom of the cliffs, plesiosaurs and icthyosaurs swim in the surf. Pterosaurs dive down onto the fish that have been disturbed by the big reptiles. And beyond that? A vast ocean, far larger than the Pacific today, reaches towards distant lands that will eventually become the modern continent of Asia.

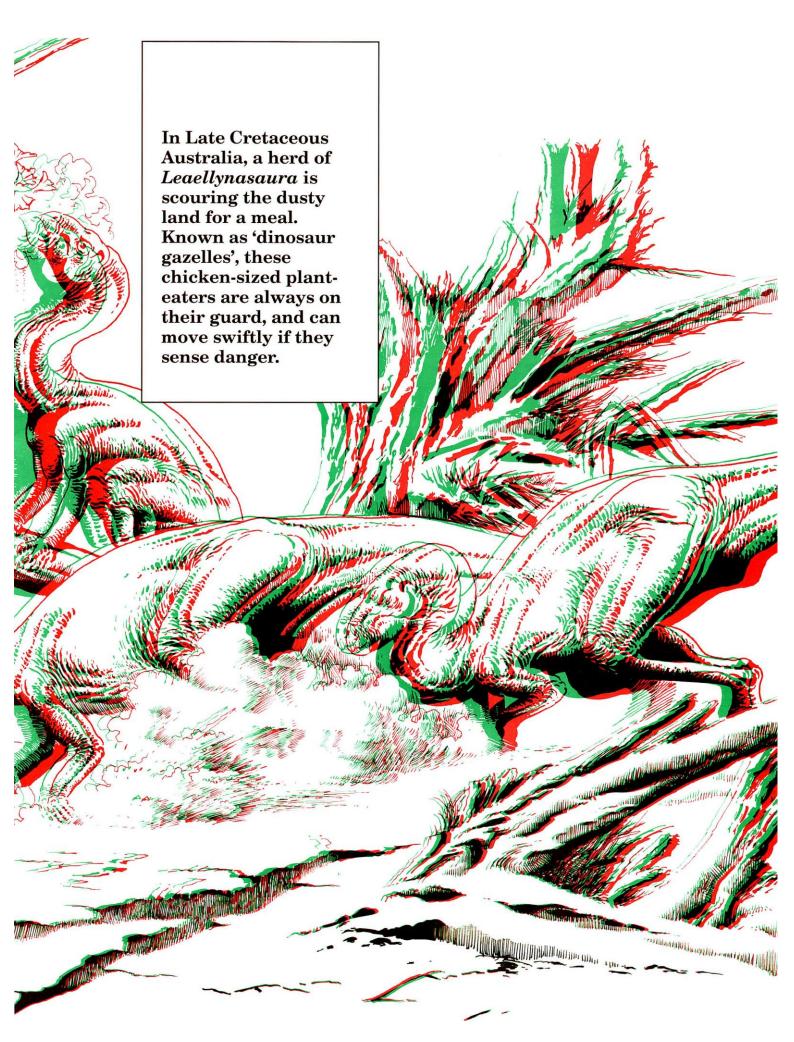


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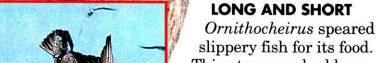


Pterosaur

heads

Long and spear-like or deep and brush-like, pterosaur heads came in all shapes and sizes.

any pterosaurs lived near water. They swooped down from the Mesozoic cliffs and rocks to catch food. Some hunted for fish, some snapped at insects, and others sieved up tiny water creatures. Many pterosaurs caught their food while in the air. But some just stood still and dabbled for it in the shallows. Pterosaurs evolved their different head shapes to help them feed in different ways.



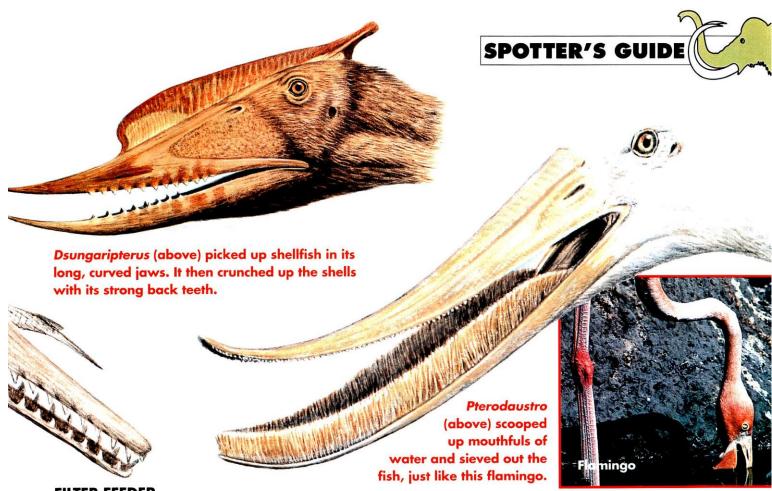
Pelican

This pterosaur had long jaws lined with short, sharp teeth. A parent pterosaur may have stored fish in a special throat pouch to take back to the nest. A young *Ornithocheirus* could use its long beak to pick the fish out of the pouch. Today's pelicans have throat pouches like this.

Ornithocheirus

PLUCKY EATER

Dsungaripterus had amazing jaws that curved upwards at the end. It probably used them like a pair of giant tweezers, to pluck small crabs and shellfish off the rocks. Dsungaripterus cracked the shells open on specially flattened teeth at the back of its mouth. Its bony crest may have helped Dsungaripterus to steady itself as it soared through the sky.



FILTER FEEDER

Pterodaustro is known as the 'flamingo pterosaur' because experts think it fed like today's flamingo. Its lower jaw was lined with a sieve, made up of thousands of long, narrow teeth. Pterodaustro fed on the shrimp-like creatures it found in the mud.

GRIP FAST

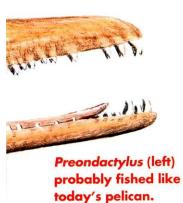
Preondactylus had long, beak-like jaws and forward-pointing front teeth. It probably ploughed its lower jaw through the surface of the water as it flew along.

TOOTHLESS WONDER

Quetzalcoatlus had slim, toothless jaws. It fed on creatures that lived in muddy pools and picked off bits of flesh from carcasses.

SNAP HAPPY

Anurognathus had a short, blunt head. Its mouth was studded with tiny, peg-like teeth. It snapped up dragonflies or wood wasps while it was in flight.





Anurognathus (right) had small, blunt teeth and probably lived on insects.





Prehistoric scavengers

When a dinosaur died, its body was not just left to rot. There were plenty of creatures more than happy to take advantage of an easy meal.

nimals in the wild die for many reasons. Some are killed by predators, others die of old age or illness. But their bodies do not stay around for long. A dead animal provides a tasty meal for an entire army of scavengers, from large mammals to tiny bacteria. Scavengers are nature's refuse collectors, clearing away unwanted rubbish. Without them, the world would be littered with rotting carcasses.

FOOD NOT FOSSILS

Why are most fossils the remains of plants and animals that were buried soon after they died? One reason is that scavengers quickly remove anything left out in the open. Only in very cold or very dry places do animal remains stay untouched.

LAZY HUNTERS

The biggest scavengers today are flesheaters, such as hyenas and jackals.
Although these creatures can hunt for themselves, they also prowl around other animals that have made kills, waiting for them to eat their fill, before moving in for the leftovers.

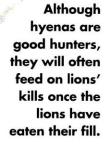
IN FOR THE KILL

the kill.

It was probably the same in the days of the dinosaurs. In the Late Cretaceous, packs of fierce Dromaeosaurus hunted large plant-eating dinosaurs, such as Triceratops. Dromaeosaurus was a relatively small dinosaur, but it was fast-moving. The pack slashed at its prey until it was too weak to fight back. Only when it had collapsed to the ground did Dromaeosaurus move in for









Tyrannosaurus rex

Dromaeosaurus

MOVE OVER!

Often, larger, slower-moving carnivores, such as mighty *Tyrannosaurus rex*, were attracted by the stench of blood in the air. They followed the scent to the scene of

the kill, and lurked nearby, waiting to steal the meal. When the prey was dead, or almost so, *T rex* would move in. The smaller dinosaurs were driven off and the giant was left to eat his fill.

OUR MEAL TOO!

But the pack of *Dromaeosaurus* did not give up that easily!
They waited nearby, and snatched mouthfuls of food while *T rex* was busy eating.
And, when the giant had finished feeding, there was still plenty left for *Dromaeosaurus* and other smaller creatures.

Packs of *Dromaeosaurus* were fierce hunters. They were able to kill large prey, such as *Triceratops*. But larger predators, such as *Tyrannosaurus rex*, were able to bully their way through and steal their kills. Smaller scavengers, such as rodents and bugs, also came to feed.

Triceratops



LEFTOVERS

Neither Tyrannosaurus rex nor Dromaeosaurus would have eaten the entire Triceratops carcass. Other hungry meat-eaters, attracted by the smell of the meat, would have hurried along. Large lizards, like the monitor lizards of today, and smaller dinosaurs, such as Chirostenotes and Struthiomimus, may have come to feed on the softer parts of the dead animal. They would also have made a meal of the lizards! Many insects, such as flies and beetles, would have crawled over the remains, feeding and laying their eggs. When the eggs hatched, the maggots would have had a meal, too.

FLYING SCAVENGERS

Just like the vultures of today, toothed birds, such as *Ichthyornis*, may have fluttered above the heads of the scavengers. As soon as they saw a chance, they would have dived down to snatch a mouthful of meat from the carcass.

THAT MEAT-EATING DINOSAURS
COULD NOT CRUSH BONES.
The teeth of carnivorous dinosaurs were designed for slashing and carving.
They did not have strong enough teeth or jaws to crush bones. The bones of a Camarasaurus from Wyoming, in the USA, have been found with large, grooved toothmarks, cut soon after the creature died. But none of the bones

had been crushed.

NIGHT FEEDERS

As darkness fell, small mammals such as *Purgatoris*, which lived and fed like shrews, would have crept out to feed at the remains. They would have snapped up the maggots that had hatched from eggs laid by the flies that had fed earlier in the day.

THE BARE BONES

Eventually, all that would have been left of that once great beast, *Triceratops*, would have been its bones, picked completely clean by the scavengers.

There were similar scavenging scenes in the Jurassic. When a large dinosaur like Brachiosaurus died, the body fed a number of animals, from mammals like Triconodon to small dinosaurs like Compsognathus.

Brachiosaurus

Beetle

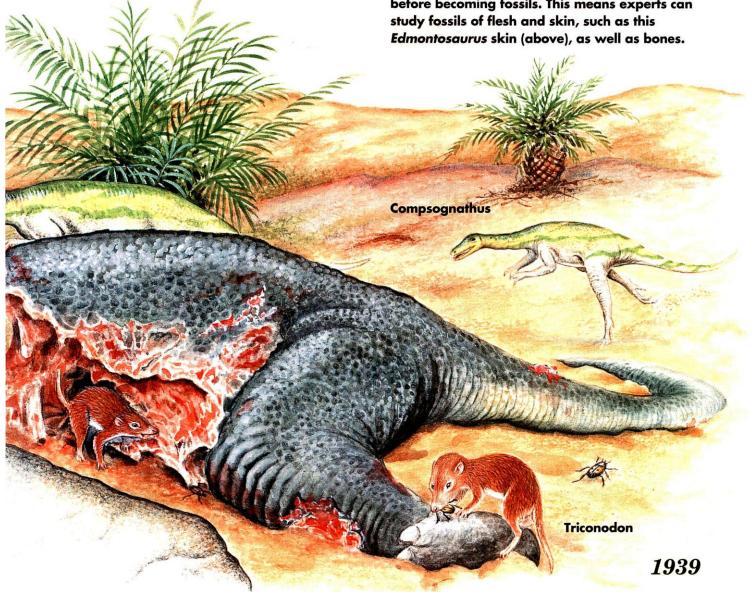


MUMMIFIED

Not all dinosaur carcasses were eaten in this way. Several mummified dinosaurs have been unearthed. This happens when the body, with skin and flesh intact, dried out completely before being fossilized. This means that scavengers had not been able to strip all the meat and bones from the dead dinosaur. Perhaps these preserved dinosaurs died in an area where scavenging dinosaurs and animals could not reach them. Or perhaps, millions of years ago, there were fewer scavengers at work than there are today.

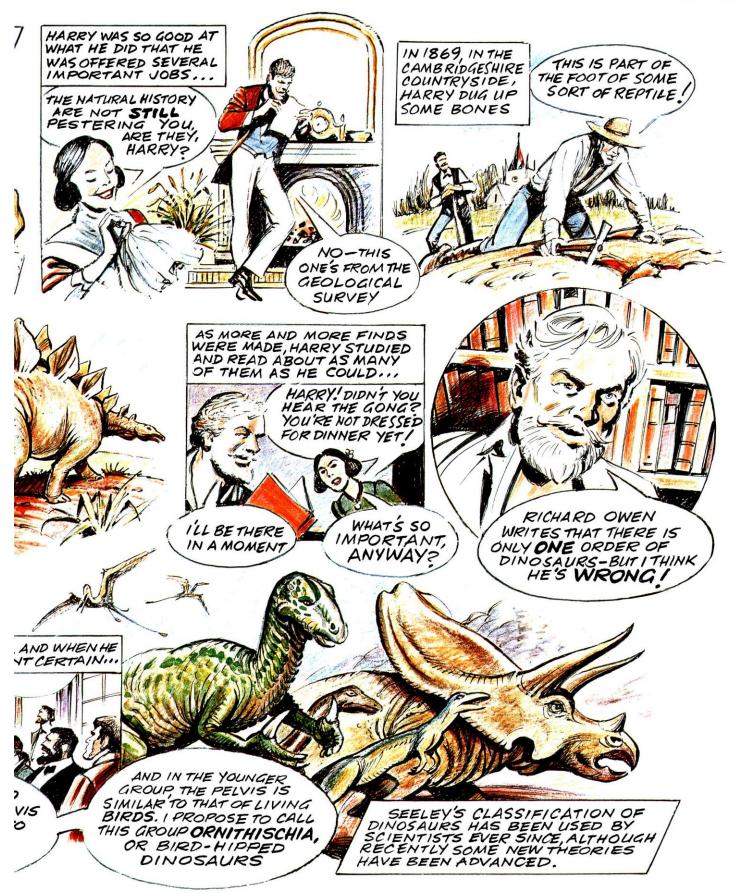


Not all dinosaur carcasses were picked clean by scavengers. Sometimes the bodies dried out before becoming fossils. This means experts can study fossils of flesh and skin, such as this









Improve and test your knowledge Long nose - no! Some scientists think that Brachiosaurus may have had a trunk like an elephant. The Ichthyosaurus holds all the answers. enormous nostrils in the skull See how you score seem to suggest this. However, in the quiz. there is no room on the skull for the attachment of the powerful muscles needed to make a trunk work. The dinosaur Leaellynasaura was as big as: a) a hippopotamus b) a chicken c) a sheep The teeth of carnivorous dinosaurs could: Dsungaripterus had jaws like: a) crush bones a) a sieve b) shred tough leaves b) a lion's c) slash and carve flesh c) giant tweezers Hippopotamus-sized **Mummified dinosaur** Kannemeyria was: remains are the result of: a) a mammal-like reptile a) skin and flesh drying out b) a dinosaur-like mammal b) Ancient Egyptians burying them c) a reptile-like bird c) dinosaurs drowning in rivers Which pterosaur is the The small plant-eater 'flamingo pterosaur'? Anchisaurus lived in: a) Quetzalcoatlus a) Carboniferous Europe b) Anurognathus Carnosaur curls b) Early Jurassic North America c) Pterodaustro A newly discovered fleshc) Precambrian South America eating dinosaur from Pyrotherium was called Antarctica has a curl-like 'fire beast' because:

a) it liked hot food b) it had fiery red skin

c) it was found in volcanic ash

crest on its head.

Not new news

You probably think the idea
that birds evolved from
dinosaurs is an exciting new
theory. But the Victorian
naturalist, Thomas Henry
Huxley, proposed it soon after
the first Archaeopteryx was
discovered in 1861. The idea
fell out of favour in 1926
when the Danish
palaeontologist, Gerhard
Heilmann. denounced it, and it
did not resurface until
the 1970s.





This little creature is called Dimylus, and it lived in Europe over 20 million years ago. Dimylus was a bit like a mole, and may have lived on molluscs.

- Animal remains that turn into fossils usually:
- a) get buried very quickly
- b) get eaten by scavengers
- c) get frozen in ice



WINNAMAN AND THE REAL PROPERTY OF THE PARTY OF THE PARTY

- Which of these dinosaurs moved around in large herds?
- a) Ceratosaurus
- b) Allosaurus
- c) Apatosaurus

Throwback or kickback?
Every now and then, a whale is spotted with a pair of hind legs. This freak of nature is a throwback to the whale's distant ancestors that lived on land.

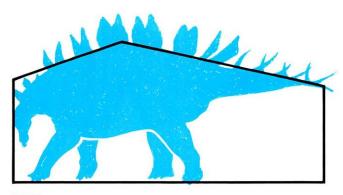
Answers to the questions on inside back cover



DACENTRURUS

First decide on the basic shape of your dinosaur. Draw this with a pencil in the middle of a piece of paper. From this angle Dacentrurus looks a bit like a shed.

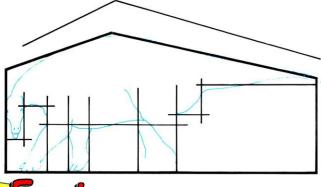
Draw lines in the shape to show where the main parts of the body go – mark where the legs join the body, for example. Draw a line to show where the plates and spines go.

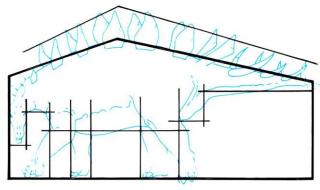


Draw in the outline of *Dacentrurus*, following the lines you made in Step 2. Don't press too hard with your pencil, so you can rub out the lines if you make a mistake.

Look at the plates and tail spines. You can only see part of the row behind.

This row looks smaller because it is further away. It is also darker because it is in shadow.

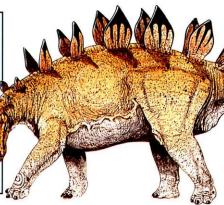






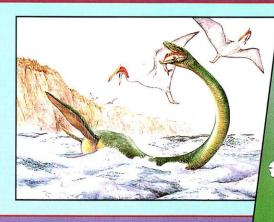
Dacentrurus was the first stegosaur ever discovered.

- NAME: Dacentrurus (da-sen-troo-rus)
 means 'pointed tail'
- GROUP: dinosaur
- SIZE: about 7m long
- FOOD: plants
- LIVED: in Late Jurassic Europe



Try to copy the rough texture of Dacentrurus' skin and plates.

Find out the fascinating story behind dinosaur names in SPOTTER'S GUIDE. See the changing faces of sauropods in TIME DETECTIVE



PLUS

Three fascinating creatures in IDENTIKIT and HISTORY IN PICTURES 3-D GALLERY GIANTS OF THE PAST

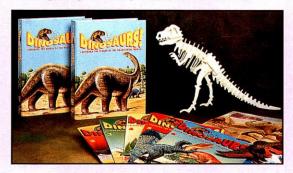
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ANSWERS TO FACT FILE QUESTIONS: 1.b 2.c 3.a 4.b 5.c 6.a 7.c 8.c 9.a

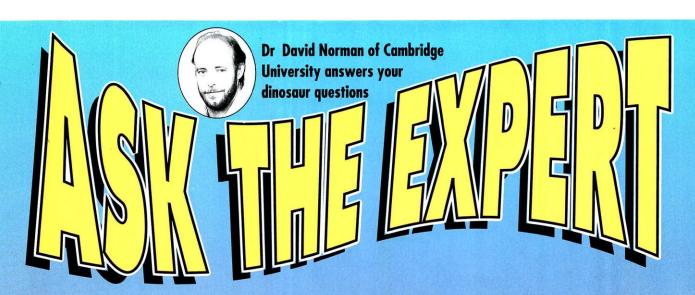
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What is the most exciting dinosaur find in the last five years?

There have been so many dinosaur finds in recent years that it's very hard to pick the most exciting!

One really interesting find concerns some work that has been done in England. It involved carefully removing parts of the shell from dinosaur eggs found in China. Inside some of the eggs, the tiny embryonic bones of baby dinosaurs, preserved in great detail, were found.

Were there jellyfish in prehistoric seas?

The remains of jellyfish-like creatures have been found preserved in rocks which appear to date back some 600 million years to the end of the Precambrian. The

discovered in the Flinders
Mountains of South
Australia. The bodies of
jellyfish are very soft,
and so such discoveries
are rare as these creatures
would not usually

leave an imprint on the surface of a rock.

Did prehistoric mammals have stronger teeth than meat-eating dinosaurs:

The answer really depends upon which sort of teeth you are talking about. The long, thin, stabbing teeth which lined the jaws of the large theropods were incredibly strong. But carnivorous mammals

have much more complicated teeth than dinosaurs. Behind the stabbing (canine) teeth, their cheek teeth (molars) have spikes and sharp ridges for puncturing flesh, shearing meat and, in

some cases, crunching bones.
These sorts of teeth are much stronger, on average, than dinosaur teeth.

