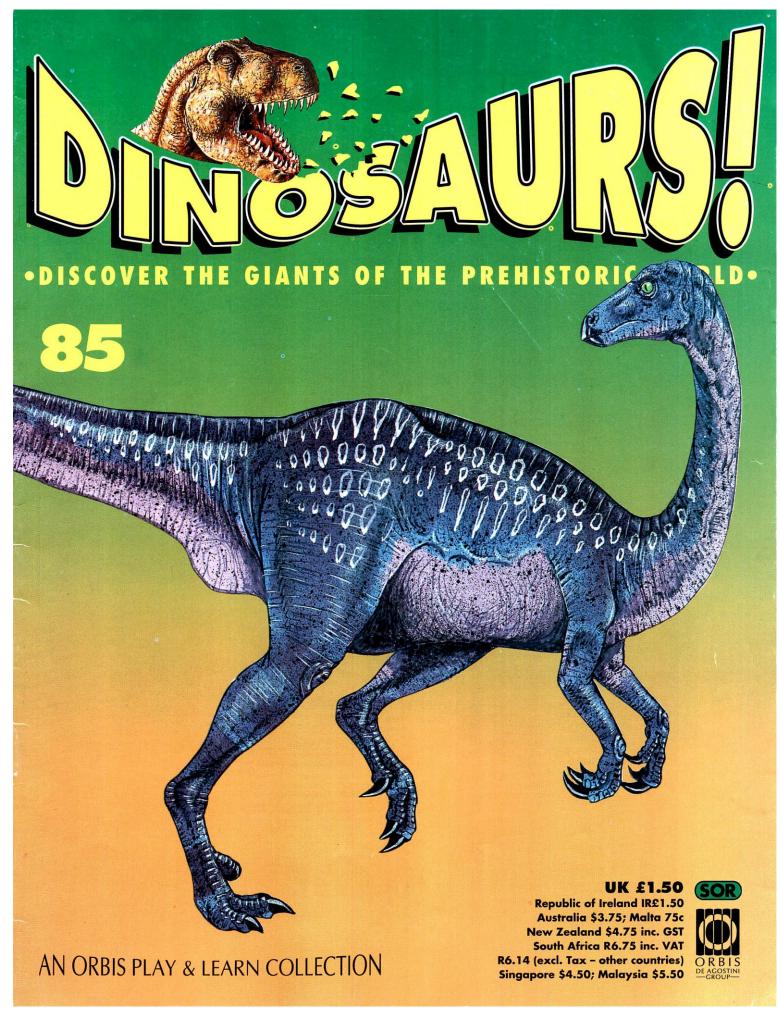
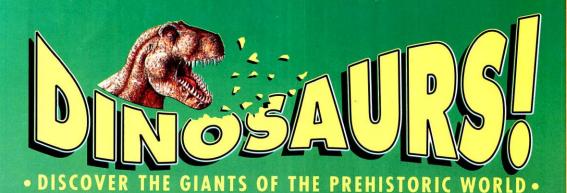
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From a giant sea reptile to a mysterious Cretaceous dinosaur

LIOPLEURODON 2017 **ERLIKOSAURUS** 2020 HOMALODOTHERIUM 2021





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2036



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LIOPLEURODON

This giant of the sea ruled the waves 140 million years ago when dinosaurs walked the Earth.

he largest reptiles in the late Jurassic oceans were the plesiosaurs and the pliosaurs. Liopleurodon was a massive pliosaur that grew up to 12m long.

SPOT THE DIFFERENCE

pliosaurs, however, could hunt much

bigger prey.

There was one major difference between plesiosaurs and pliosaurs. Plesiosaurs had long necks and short heads; pliosaurs had short necks and large heads. Although there were giant plesiosaurs, such as *Elasmosaurus*, even the biggest were only able to feed on medium-sized fishes. Their small jaws could not tackle large prey. The mighty-jawed

BIG HEAD

Liopleurodon had a massive skull, which was probably over 2m long. Its huge jaws were worked by very strong muscles. This fearsome hunter probably preyed on other marine reptiles, such as dolphin-shaped *Ichthyosaurus*. But *Liopleurodon* could also have overpowered smaller plesiosaurs, such as *Cryptoclidus*.

DEEP-SEA DIVER

Liopleurodon was a very agile swimmer, despite its giant size. The huge creature looked rather like today's whale. It had a powerful, streamlined body and strong

flippers. It could have raced through the Jurassic seas after its prey. As well as being a fast mover, Liopleurodon was able to swim down into the depths of the ocean.



MONSTER FACTS

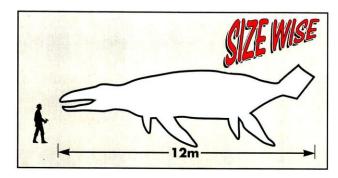
NAME: Liopleurodon (ly-o-ploo-ro-don)
means 'smooth-sided tooth'

GROUP: reptileSIZE: 12m long

FOOD: large, sea creatures

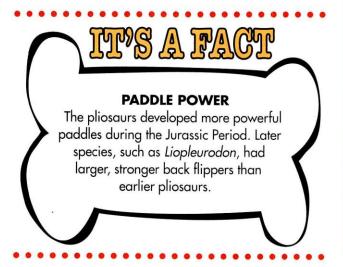
LIVED: about 140 million years ago in the

Late Jurassic Period in Europe



POWER STEERING

Four long flippers powered *Liopleurodon*. The giant reptile 'flew' through the sea, rather like today's sea turtle. It pushed downwards with its front flippers to shoot forwards. And it kicked backwards with its hind flippers to increase speed. The mighty sea monster could have shot through the water after its prey and kept up the same speed for a long time.



BUILT FOR SPEED

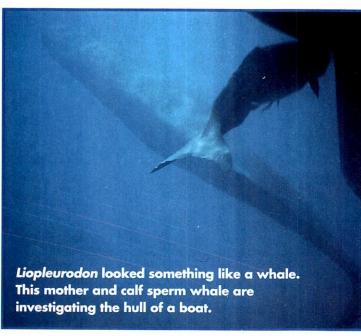
Giant plesiosaurs, such as *Elasmosaurus*, were slowed down in the water by their long necks. *Elasmosaurus* had over 70 vertebrae in its neck. *Liopleurodon* had fewer than 20. Its shorter neck meant that it could move through the water much more quickly than the plesiosaurs.

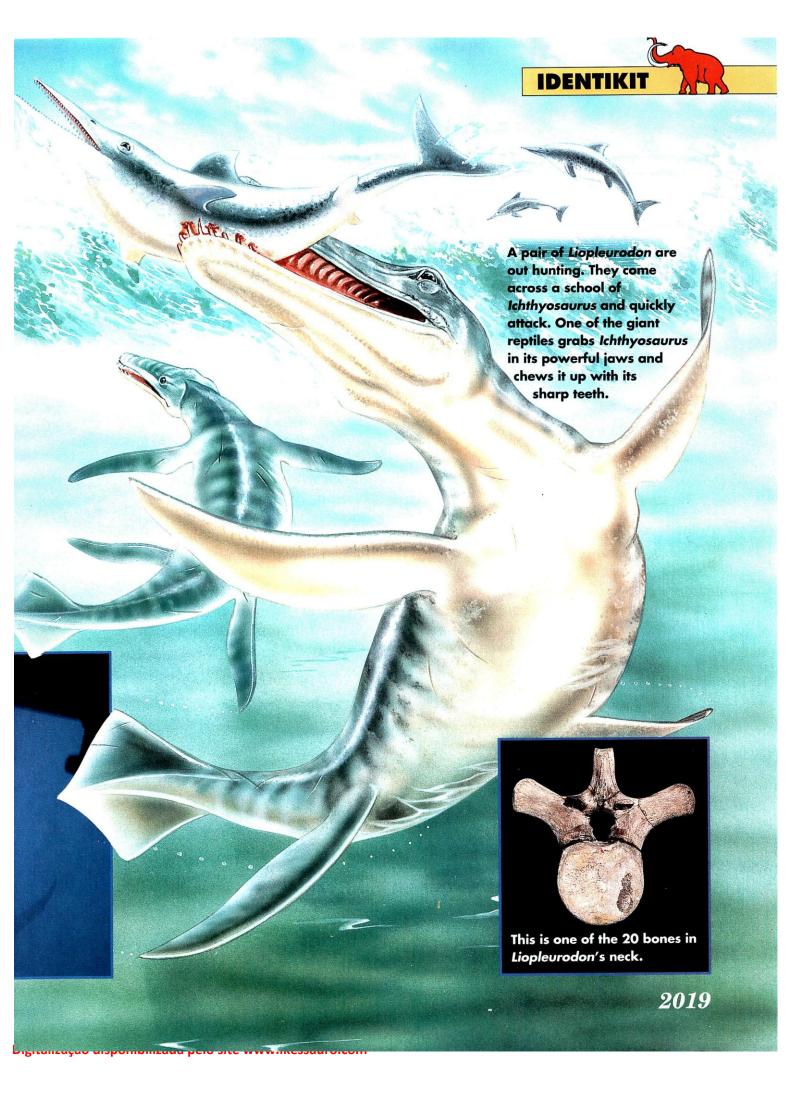
EGGS ON SHORE

Female *Liopleurodon* came on shore to lay their eggs. They dug holes in the sand, laid the eggs, then crawled clumsily back to the sea. When the young hatched, they had to get into the sea as quickly as possible. Many predators saw the defenceless hatchlings as a trouble-free source of food.

OCEANS OF ADVENTURE

By the Late Jurassic, oceans had developed between continents, and shallow seas had begun to spread across the land. Huge marine reptiles, including *Liopleurodon*, flourished in this new watery world. Fossil remains of *Liopleurodon* have been found in England, France, Germany and Russia.







ERLIKOSAURUS

Was it a meat-eater? Was it a plant-eater? *Erlikosaurus* remains a Cretaceous mystery.

rlikosaurus was one of the segnosaurs, a group of dinosaurs that has puzzled the experts for years. The segnosaurs continue

experts for years. The segnosaurs continue to baffle scientists because they have features similar to so many other dinosaurs. They could have behaved like theropods, prosauropods or ornithischians.

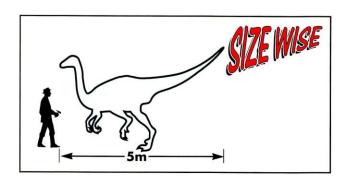
BITS AND PIECES

A skull, some neck vertebrae, a humerus (front leg bone), and both feet are all that have been found of *Erlikosaurus* so far. The dinosaur was smaller than *Segnosaurus* but it looked very similar.

Erlikosaurus had a larger beak,

more teeth and narrower claws.

It probably moved about on two legs, but it could only have managed a slow run.



FOOD FOR THOUGHT

Erlikosaurus could have used its long, clawed hands to rake open termite mounds. Or it could have nipped off tender shoots with its beak-like jaws.

Perhaps it seized fish from the lakes and rivers. Some experts say that *Erlikosaurus* was more likely to have eaten plants because it was not quick enough to catch living creatures. No one can be sure until more evidence is found.

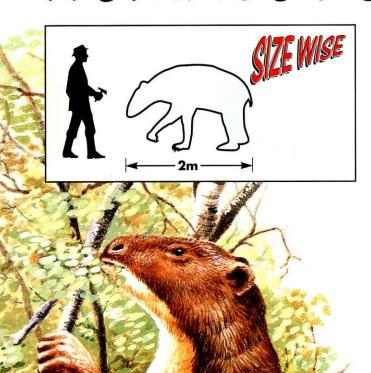
MONSTER FACTS

- NAME Erlikosaurus (er-<u>lik</u>-oh-<u>saw</u>-rus) means 'Erlik's lizard'
- GROUP: dinosaur
 - SIZE: 5m long
 FOOD: meat or plants
 - LIVED: about 65 million years ago in the Late

Cretaceous Period in Mongolia



HOMALODOTHERIUM



The llama-like *Homalodotherium* roamed the plains of prehistoric South America 25 million years ago.



wide range of different hoofed mammals evolved in South America. They grew up in isolation because South

America was a huge island at that time.

DEEP SOUTH

Homalodotherium belonged to the order of notoungulates, or 'southern hoofed animals'. Many notoungulates were no bigger than rabbits. Others looked more like horses or hippos.

CLAWS

Most notoungulates had hoofs. But Homalodotherium had claws on the four 'fingers' of its front and back legs.

Homalodotherium may have used its claws to dig up tasty roots and bulbs. It may also have reared up on its hind legs and pulled down leafy branches to feed on. Its limbs were heavy, so Homalodotherium could not have moved very fast.

MONSTER FACTS

- NAME: Homalodotherium (hom-<u>al</u>-ow-dowthee-ree-um) means 'level-toothed mammal'
- GROUP: mammal
- SIZE: 2m long
- **FOOD:** plants
 - **LIVED:** about 25 million years ago in the Early and Middle Miocene in Argentina



NEEDLES AND STONES

The sauropods probably swallowed stones to help grind up the tough needles and cones in their stomachs. The duckbilled dinosaurs of the Cretaceous Period probably ate conifers, too. But their teeth had huge grinding surfaces. They could easily have crushed up the pine needles into tiny pieces in their mouths before swallowing them. So they would not have needed stomach stones to aid digestion.

Giraffe

SKY HIGH

The juiciest leaves are usually high up. How could dinosaurs reach these tasty morsels? *Brachiosaurus* would have had no problem. This huge sauropod had long front legs and very high shoulders. Its long neck could reach over 13m high. Other sauropods, such as *Diplodocus* and *Apatosaurus*, were very long rather than tall. These dinosaurs, however, had massive muscles around their hips and tails. They could rear up on their hind legs for a short time. They may have reached almost 12m above the ground in this way.

MUSCLE HIPS

The plated dinosaur *Stegosaurus* had the same arrangement of bones and muscles around the hips as *Diplodocus*. So it, too, could probably stand on its hind legs and reach up. It may then have used its narrow beak to nip off tasty leaves.



WE WILL NEVER KNOW IF DINOSAURS LIVED IN TREES

Most tree-living animals are lightweight, with delicate skeletons. This is so that their weight will not break the branches, and so that they can move about more easily. Skeletons of such lightly built animals tend to fall to pieces before they have a chance to fossilize. So, if there were any tree-living dinosaurs, it is unlikely that they would have been preserved as fossils.

Diplodocus

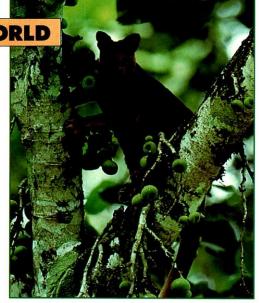
PREHISTORIC



WORLD

LIFE IN THE TREES

Many animals today live in trees - squirrels, treekangaroos, koalas, monkeys, not to mention all the tree-nesting birds. But did any animals live in trees in dinosaur times? The answer to that is that we do not know for sure.



CLIMBING GOATS

If we look at the skeleton of today's goat, we find that it is definitely a ground-dwelling animal. It has hoofs and longshanked legs built for running. However, we often see goats climbing trees and steep cliffs to find extra food.

FIRST THOUGHTS

Scientists used to think that the little birdhipped dinosaur Hypsilophodon was a tree-living dinosaur. In shape and size it would have been very much like today's Australian tree-kangaroo. Othenio Abel, the palaeontologist who first suggested this in 1912, thought that the first toe of *Hypsilophodon*'s hind foot could turn round and allow the whole foot to grasp a branch, just like today's perching birds.

The tree-kangaroo (above) shows its climbing skills.

Plant-eating dinosaurs (right) reached as high up the trees as possible to find food.

A WRONG GUESS

Then, in the 1960s. scientists realised that the toe could not have been turned round in this way. Also, the arrangement of the bones in the leg was that of a running animal, not that of a climbing animal.

A BROWSE LINE

Where herds of deer feed from the same trees all the time, in a deer park for example, the trees usually develop a distinctive shape. A bare trunk rises from the ground and branches only start to grow at a height that the deer cannot reach. The maximum height to which the deer can reach is called the 'browse line'. In dinosaur times, when giant plant-eaters existed, conifers may well have had browse lines 10-15m from the ground!

LET'S GO CLIMBING

However, an animal does not have to be a tree-living animal to be able to climb trees. Some of the small meat-eaters, such as Ornitholestes, had quite strong arms and sharp claws. Some scientists think that they would have been ideal tree-climbers. Some tree-climbers today, such as bears and big cats, are really quite surprising!







CLIMBING FOR FOOD

It may have been the same with dinosaurs. Smaller types of dinosaur may have clambered up trees from time to time in search of food, even though they were not really designed for climbing. We do not know whether any dinosaurs lived in the trees all the time.

LAUNCH PADS

The earliest birds, from *Archaeopteryx* onwards, were probably tree-dwellers. It is possible that *Archaeopteryx*'s powers of flight developed, over many thousands of years, to help it jump from one tree to another, in search of food. Pterosaurs may have developed the ability to fly in exactly the same way.

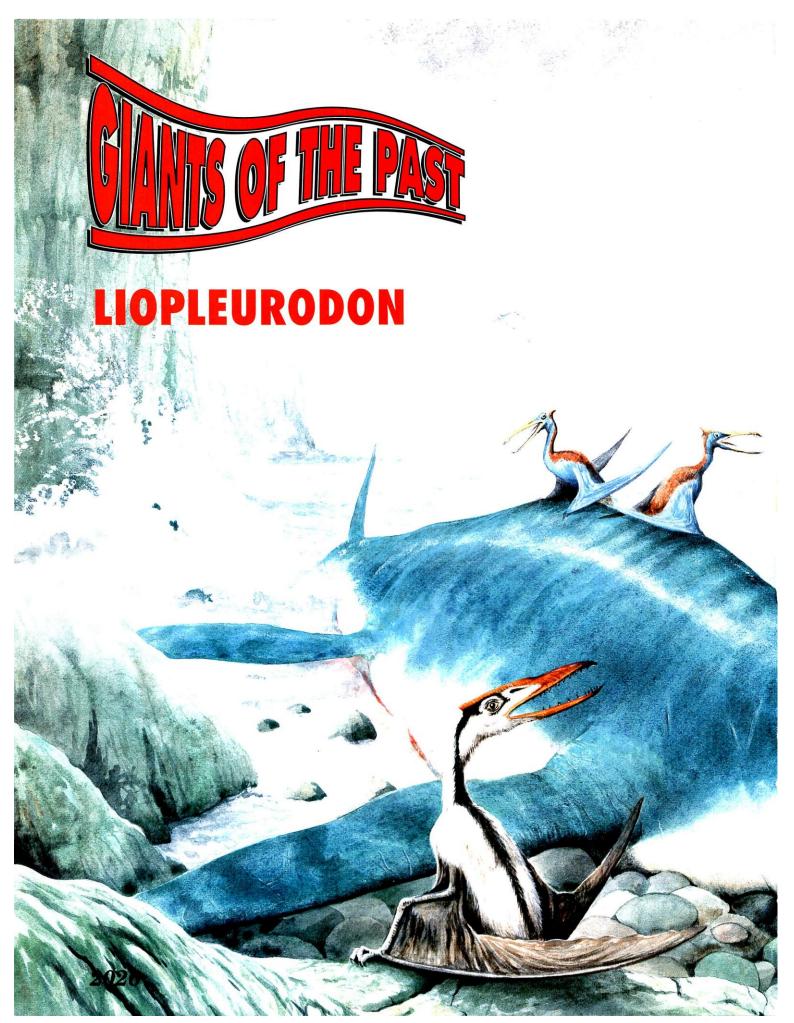
TREES AS HIDING PLACES

At the time of the dinosaurs, the first mammals also existed. These were small, shrew-like and lemur-like animals. Some of these would almost certainly have lived in the trees. It would have been much safer than life on the ground. For a start, it would have been the best way to keep

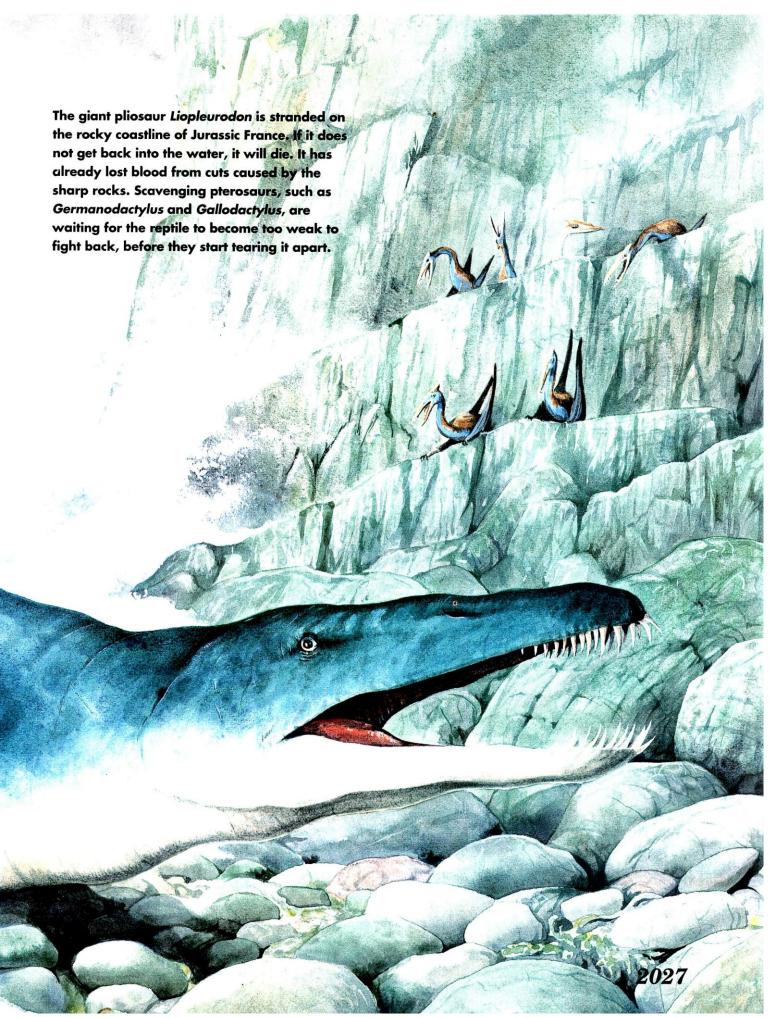
> clear of the great dinosaurs of the time. That is, as long as the mammals kept well above the browse line. Below this level the dinosaurs could still get them!



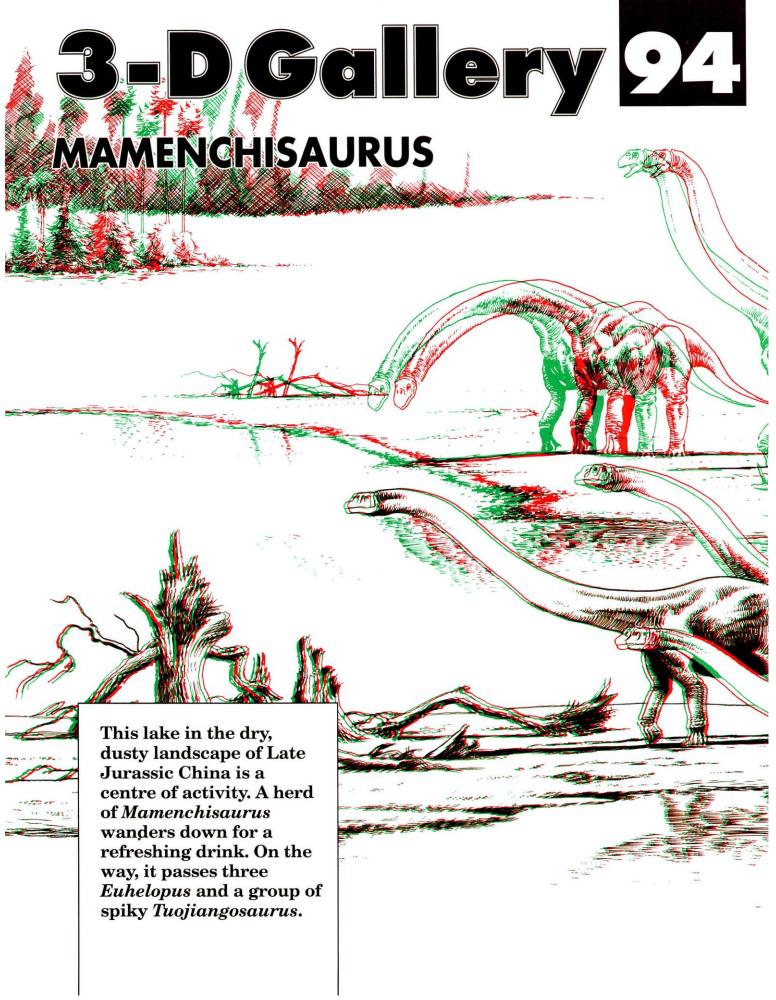
A gerenuk (left) is a type of gazelle. It can reach surprisingly high in its search for food, by standing on its hind legs and stretching its neck up into the tree.

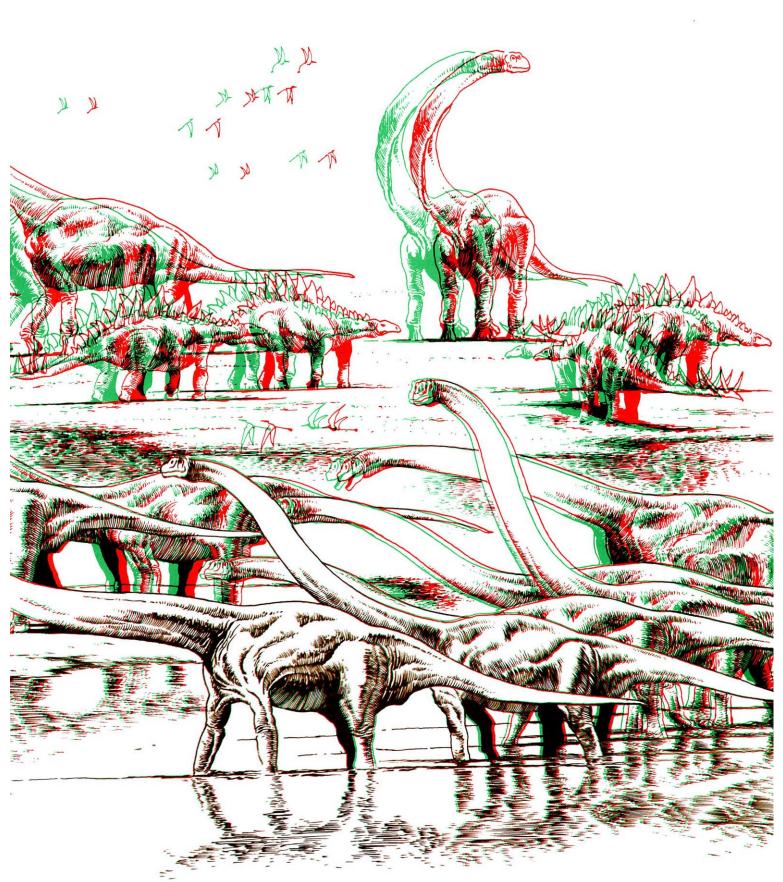


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Glidin

Over 240 million years ago, when dinosaurs first walked the Earth, kitelike lizards glided through the forests.

liding reptiles still exist. But there were many more varieties in prehistoric times.

Their 'wings' were flaps of skin supported by long bony spines. They 'flew' by launching themselves off high branches and floating along on currents of air.

IN AT THE BEGINNING

The earliest gliding reptile discovered so far is Coelurosauravus, or 'hollow-tail reptile'. Its fossil remains have been found in Germany, England and Madagascar. This small, lizard-like creature lived in the Late Permian, about 250 million years ago. It probably glided from tree to tree, snapping up insects as it went.

Coelurosauravus had a wingspan of about 30cm. The wide, bony frill on the back of its head probably made it more aerodynamic.

measured about 65cm long.

Kuehneosaurus

Kuehneosaurus, a long-legged lizard from the Late Triassic, probably glided in the same way as Coelurosauravus. The fossils of this 65cm-long lizard

were found in England.

FREE FLIGHT

UP AND AWAY

Prehistoric gliding reptiles probably evolved into pterosaurs, or 'winged lizards'. The pterosaurs included the first and largest flying backboned animals.

Sharovipteryx lived in the Triassic

MULTI-PURPOSE WINGS

Kuehneosaurus moved through its forest home by gliding from tree to tree on its

long, narrow
wings. When
crawling up
tree trunks in
search of insects,
Kuehneosaurus
probably folded its wings
back out of the way. Its thin
wings may also have been
used as heat regulators, to cool
down or heat up its body.



Today's flying dragon, draco, glides through the forests of South East Asia. It 'flies' along on

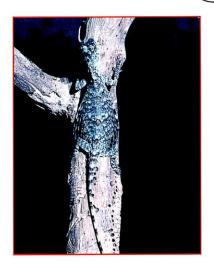
kite-like wing flaps, just as Coelurosauravus and Kuehneosaurus did.

Coelurosauravus had a wingspan of about 30cm.

FRONT AND BACK

Other prehistoric gliding reptiles developed different ways of 'flying'. Sharovipteryx lived in Triassic times, up to 40 million years after Coelurosauravus. It was about the same size, but it probably had two pairs of 'wings'. Sharovipteryx had a broad flap of skin behind its hind legs. It may also have had a smaller 'wing' of skin behind its front legs, to help it glide.

Today's 'flying' lizard, draco (right), is smaller than its prehistoric ancestors, but it glides along in the forest just like they did millions of years ago.

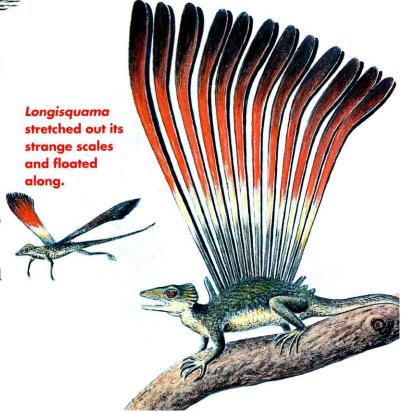


ODD ONE OUT

The strangest-looking early gliding reptile was *Longisquama*. Like *Sharovipteryx*, it lived deep in the Triassic forests. But it flew in a very different way. *Longisquama*

had a double row of tall scales along its back.

Scientists believe that each 'wing' could be moved up and down, rather like a butterfly's wings. Unlike a butterfly, Longisquama did not flap its 'wings'. It stretched them out and floated along.





Dinosaurs Work!

If dinosaurs and people lived at the same time, could dinosaurs have been used as working animals? Perhaps! Let's travel back in time and see.

magine that you have travelled back in time to the Age of the Dinosaurs. Your time machine has broken down and you are stranded. You might be tempted to use dinosaurs to help you survive.

So what could dinosaurs do?

LET ME GUIDE YOU

If you needed a guide dog, *Troodon* (below) would be ideal. This small dinosaur had a big brain (for a dinosaur) and highly developed

senses of sight and
hearing. It was also strong
and agile and reacted
quickly. *Troodon*ate most things,
and so would be
easy to keep.

STOP! POLICE!

Velociraptor, at just under 2m long, could be trained to help control small crowds. But for more serious disturbances, Deinonychus (below) could be used. But it would need very careful handling and strict training. Instead of removing the terrible toe claw, a toe-muzzle could be used to keep it back, out of harm's way.

ON GUARD

If you are looking for a guard-dog,

Ornitholestes might be a good choice.

At 2m long, it could cope easily with most intruders. However, Ornitholestes was a fierce hunter and so would need to be well trained and have a strong collar and chain.







DINO DEMOLITION

In the wild, ankylosaurids, such as *Euoplocephalus* and

Pinacosaurus, used the massive bony clubs on the end of their tails to defend themselves against attacks by meateaters. As time goes by and the stranded time travellers build towns and cities, it may be necessary

to knock down old buildings to make way for bigger and better ones. This is where a trained *Euoplocephalus* (below) would come in handy. It could swing its club against walls to knock them down.

GEE UP!

There are no horses around, but *Dromiceiomimus* (above) would make an excellent substitute. Although this dinosaur was 3–4m long and a formidable

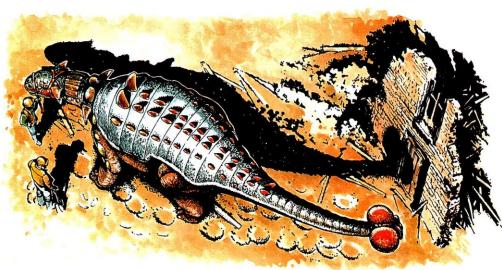
hunter, it was not a very aggressive creature. Its sharp eyesight and fast legs helped it chase after small prey, but it also ate juicy shoots and berries. It should be easy to tame, and it might be possible to train it to carry a rider.

BICYCLE BEAST

Learning to ride this beast would be more

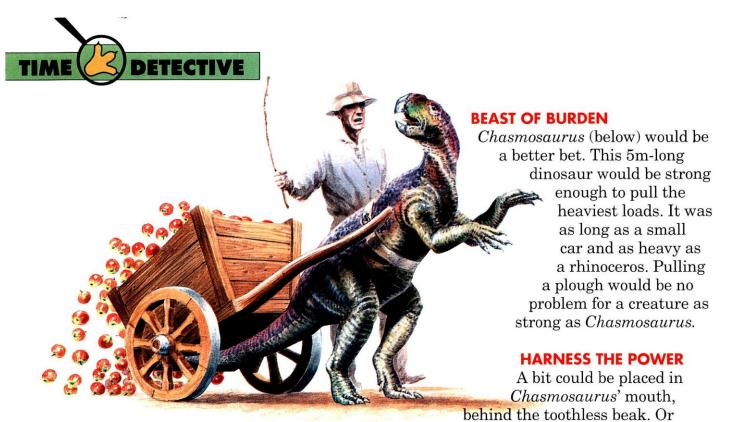
like learning to ride a bicycle than a horse.

Dromiceiomimus ran on its hind legs. Luckily, it had a long tail to help it keep its balance if carrying a rider. However, show-jumping with Dromiceiomimus might be a bit ambitious! It would also be one of the easiest dinosaurs to feed, as it could eat almost anything.



that Euoplocephalus had shutters to protect its eyes?

Yes. Euoplocephalus is the only dinosaur known to have eye sockets with bony plates that could be snapped down to protects its eyes. It had the best protected skull of any dinosaur. Its skull was covered by big slabs of bone, and it also had two large horns. However, it had a toothless beak, so it probably ate only soft plants.



ARMOURED WORKERS

A well-trained *Euoplocephalus* could use its strong tail muscles to swing the tail club against any building that needed to be demolished. Perhaps it could also be used to fell large trees. Its heavy body armour and enormously thick skull would protect it against any falling bricks or trees. Although it was a peaceful planteater, Euoplocephalus' vast size could make it difficult to control. Also, when it got going, it would be difficult to stop!

PULL THAT PLOUGH

Choosing farm animals might be more difficult. Dinosaurs would be needed to pull ploughs, and perhaps carts and wagons, if good tracks or roads were made. One of the smaller ceratopians would probably be the most useful for this job.

UPSETTING THE CART

These dinosaurs would have the strength to pull the heaviest loads. But beware! It would not be wise to choose *Psittacosaurus* (above). This dinosaur would get up on its hind legs when running!

2034

chains could be fastened to the bones that

easier to control the beast. Feeding would

ran around its frill. This would make it

be no problem, as it could be left out to

However, care would be needed to make

graze on land not needed for farming.

sure that no predators crept up on it

while it was feeding. Chasmosaurus

lived in herds and one on its

own, especially if it was

tame, could be at risk



PACKHORSE

There would be no roads, so transport would be difficult. You could use the larger dinosaurs to carry heavy materials around for you. Scelidosaurus (right) would make a good packhorse. This sturdy, peaceful dinosaur was about 4m long, with rows of bony studs along its back.

ALL ROPED UP

Ropes could be fixed to these studs, so that enormous loads could be attached and carried easily.

Because *Scelidosaurus* was a plant-eater, it would be easy to feed. But do remember to use females not males. The males could be very aggressive.



DINO SHEPHERDS

Velociraptor was fast and fierce, but also intelligent. It would make an excellent sheepdog, and could be trained to help round up your dinosaur herds. In the wild, this medium-sized dinosaur was a fierce hunter of small plant-eaters. It chased and then killed them, using the terrible, sharp claws on its second toe.

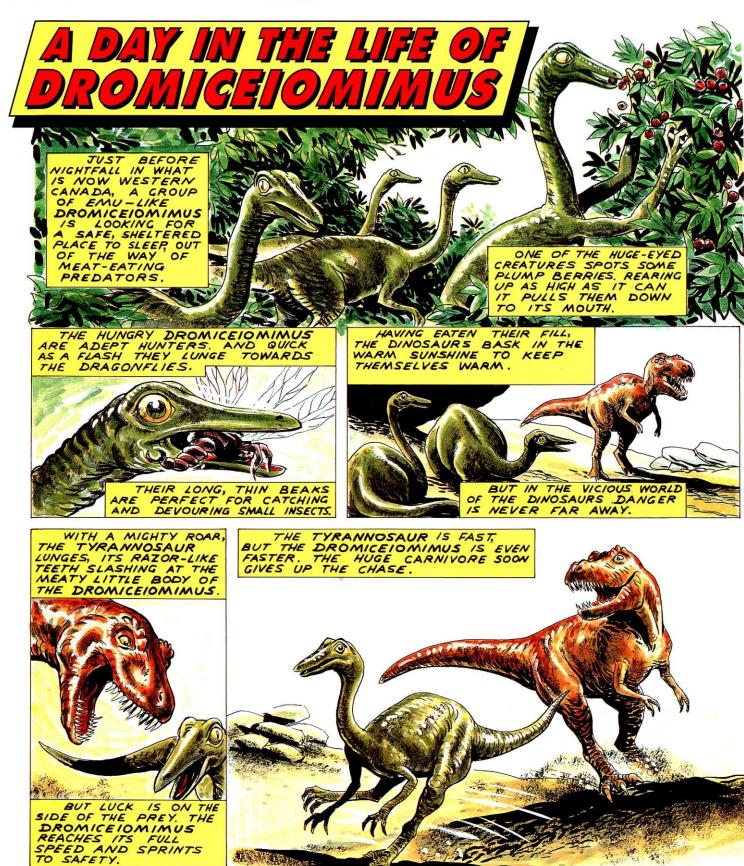
MINUS CLAW

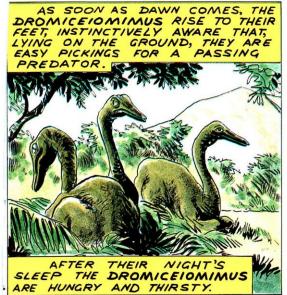
These hunting instincts could be corrected by skilful training, so that the herds were rounded up, not eaten up! It might also be sensible to remove the lethal second toe claw, to prevent accidents.

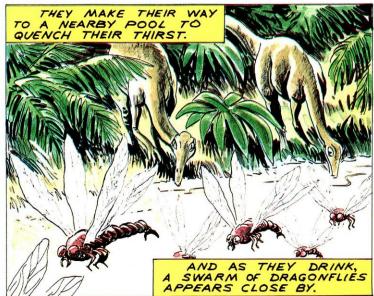
that you could really train dinosaurs to do all these jobs?

No, not really. Compared with mammals, most dinosaurs had tiny brains and were not very intelligent. Some of them, such as *Troodon*, had quite big brains, but these were used mainly to control quick movements and reflexes.

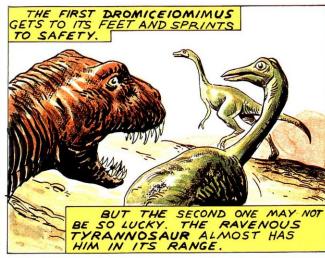




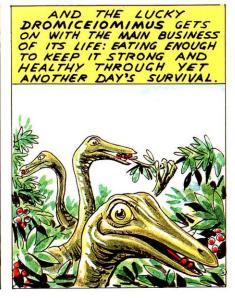












Improve and test your knowledge Thanks to coal and oil We know a lot about the Ichthyosaurus holds all the answers. Cretaceous dinosaurs of Alberta, See how you score Montana and Wyoming in North in the quiz. America, because the rocks in which they were found contain coal and oil, and companies are constantly excavating the rocks and finding dinosaur skeletons. Liopleurodon a) a plesiosaur b) a pliosaur c) an ichthyosaur Where were How did Diplodocus reach the Sharovipteryx's 'wings'? highest leaves on trees? a) behind its leas a) it climbed on rocks b) along its back b) it reared up on its hind legs c) along its sides c) it jumped up Which dino might have Where did made a good police dog? Homalodotherium live? a) Deinonychus a) South Africa b) Troodon b) North America c) Dromiceiomimus c) South America When did Archaeopteryx What did Diatryma eat? first appear on Earth? Four back legs a) plants a) 66 MYA b) fishes Diplodocus carnegii was b) 155 MYA c) meat c) 30 MYA recreated from fossil remains, with two pairs of How long was back legs as the front legs Liopleurodon's skull? were not found. a) about 2m b) about 20cm c) about 20mm 2038 Digitalização disponibilizada pelo site www.ikessauro.com

Stressed dinosaurs Heinrich K. Erben, of Bonn University, noticed that the eggshells of one dinosaur species became thinner as time went on. In today's birds, this happens when birds become upset, usually by changing conditions or by overpopulation.

Lonely dino

The only dinosaur so far found in Thailand is Siamosaurus.





Dr Shirota, an expert in insect camouflage, thinks that ankylosaurs may have had a pair of spots, like eyes, on their tail clubs. The tail club would then look like a head. and meat-eaters would attack it rather than the head.



When was Erlikosaurus alive?

- a) the Late Jurassic
- b) the Late Cretaceous
- c) the Late Devonian



WWWAANAAAAAAAAA

Which bit of Euoplocephalus would have been useful on

- a building site?
- a) its teeth
- b) its whiplash tail
- c) its tail club

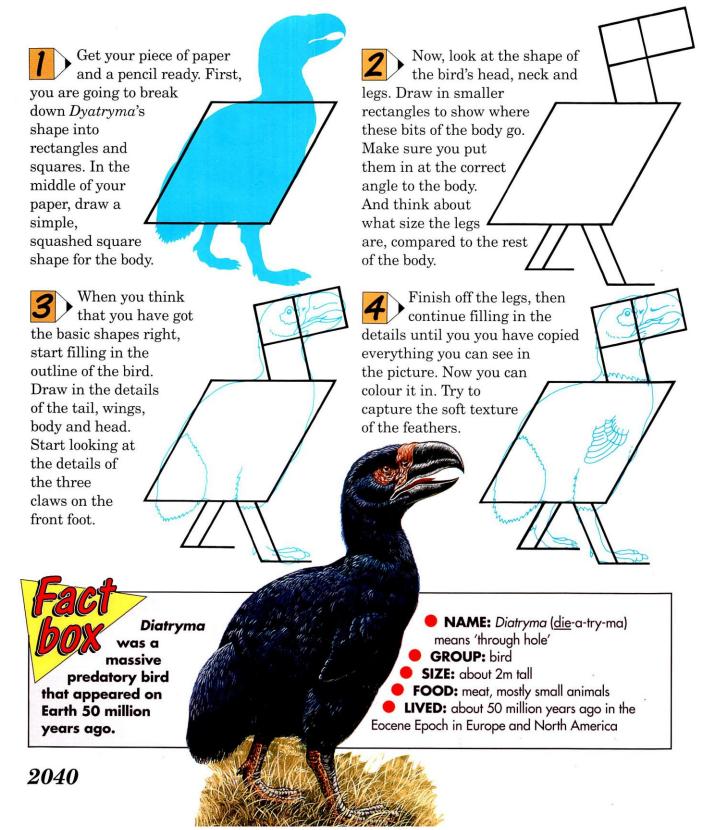
An international language The French for dinosaur is 'dinosaure', the

German is 'dinosaurier', the Spanish is 'dinosaurio' and the Italian is 'dinosauro'. So it won't be difficult for you to ask the way to the dinosaur museum, whatever country you are in!

Answers to the questions on inside back cover



DYATRYMA



Find out which bugs lived with the dinosaurs in PREHISTORIC WORLD.
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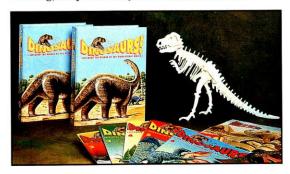




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ANSWERS TO FACT FILE QUESTIONS: 1.b 2.a 3.c 4.b 5.b 6.a 7.c 8.a 9.b 10.c

