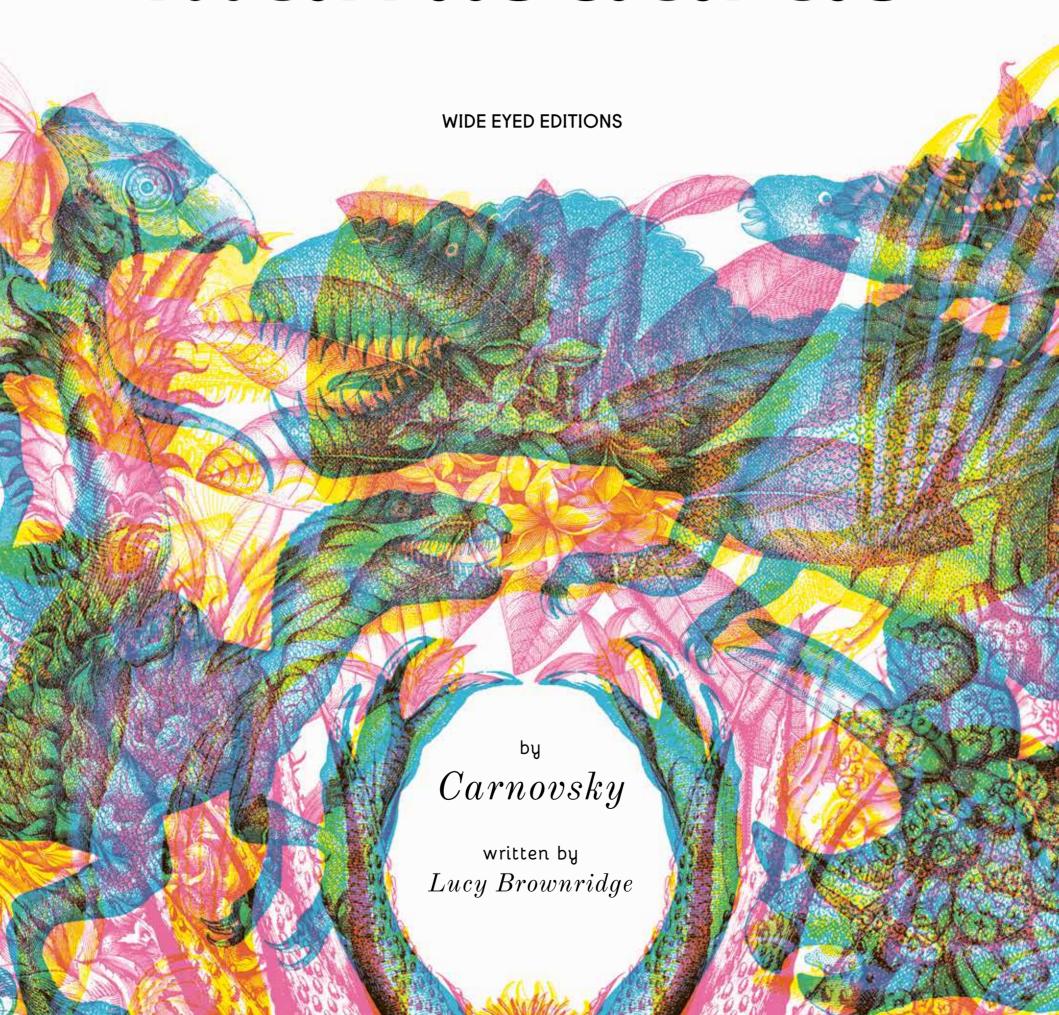
Illumisaurus



welcome to the world of the dinosaurs

The earth beneath our feet is a time capsule. Take your $palaeontology\ lens$

to draw back the veil of time and reveal the dinosaurs that once roamed our planet.

of $prehistoric \ life$ in treasure-like hoards. Get ready to journey back millennia to when

The ground below us stores the bones and fossils and $petrified \ remains$

dry land was a single, connected mass called Pangaea. Watch as it drifts apart over time,

nourishing and sustaining powerful dinosaurs, luscious plants, bountiful blossoms and unusual,

early mammals. Visit every corner of the globe and see $where \ in \ the \ world$ the most

famous dinosaurs lived. Step onto $the\ observation\ deck$ and meet the rich cast

of dinosaurs, plants and other prehistoric animals from each place. Learn more about

them in the palaeontologist's species guide.

What will you discover on your prehistoric adventure around the globe?



Take a trip around the prehistoric planet.

THE WORLD 4

WESTERN EUROPE

CENTRAL ASIA & RUSSIA EAST & SOUTHEAST ASIA 22

MIDDLE EAST & INDIA 28

> AFRICA 34

NORTH AMERICA

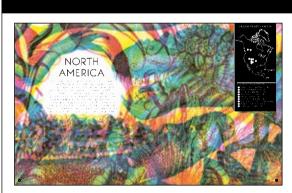
AUSTRALASIA

ANTARCTICA

SOUTH AMERICA 58

HOW TO USE THIS BOOK

WHERE IN THE WORLD



Visit a part of the world, see the lie of the land and discover what a dinosaur habitat would have been like.

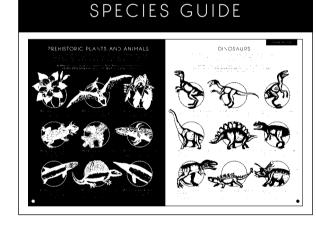


Use the red lens to reveal the dinosaurs or 'terrible lizards' that would have lived in each location.

THE OBSERVATION DECK



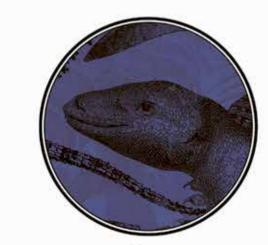
Step on to the *observation deck*. Tread carefully and watch out for dangerous dinosaurs, ancient plants and unusual creatures.



Then, turn the page to learn more about each species, the meaning behind each dinosaur's name and how many million years ago it lived (MYA) in the $species\ quide$.



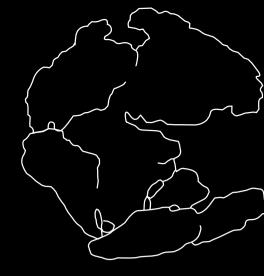
Look through the *green* lens to see the location.



Look through the blue lens to uncover the plants and prehistoric animals that would have inhabited this place.



TRIASSIC PERIOD



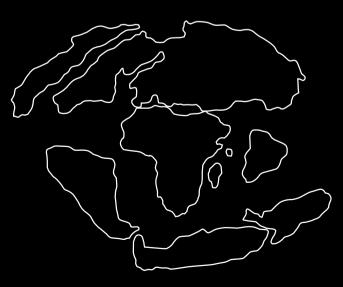
In the Triassic period, the land on Earth was all squashed together in one big super-continent called Pangaea. The word is made from the two Greek words: 'pan' which means whole and 'gaia' which means land. The climate was hot and dry and there were no ice caps. Pangaea was home to the first dinosaurs. There were few of them and they were small. At the end of this period, the land began to split apart.

JURASSIC PERIOD



In the Jurassic period, the land roughly split into two, creating Laurasia in the north and Gondwana in the south. The climate cooled and there was a lot more rain. Because the land was no longer hot and dry, new plants began to flourish and plant-eating dinosaurs could grow bigger. By the end of the Jurassic period, giant sauropods ruled the plains and chomped through lush forests.

CRETACEOUS PERIOD



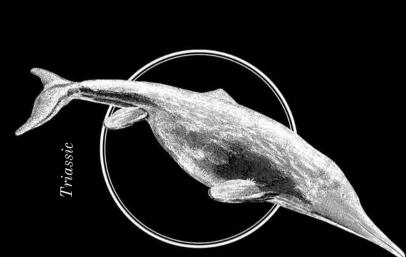
This is known as the golden age of dinosaurs. By this time, the continents had drifted apart significantly. Dinosaurs started to change to suit their climate, environment and the other plants and animals they lived along side. Flowering plants bloomed for the first time, and pollinating insects such as bees began to buzz around the lush forests.



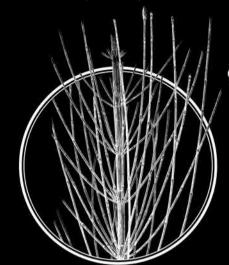
PREHISTORIC PLANTS AND ANIMALS

Many insects and animals from the Triassic period perished in a mass extinction. Plants in Jurassic times grew taller as the growing seas around the land made more rain fall. By the Cretaceous period, there were freezing temperatures at the South Pole, the first flowers graced the Earth and pollinating insects such as bees and butterflies appeared.

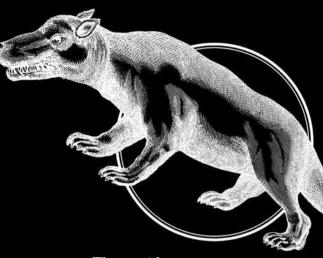
READ about the key species of plants and animals from each of the three periods, then turn back to the OBSERVATION DECK. Looking through the BLUE lens, what can you see?



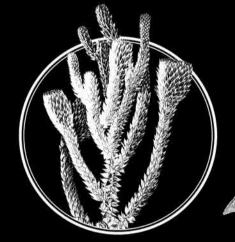
Ichthyosaurus This was a family of underwater reptiles that included this Shonisaurus and looked a



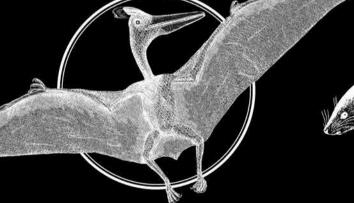
Horsetails These curious plants would have been a large part of the vegetation in the early Triassic period. They are still around today.



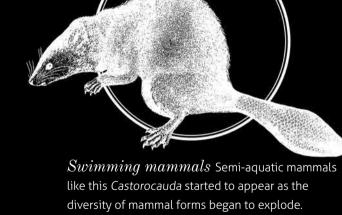
Therapsids There were few dinosaurs at this time but many mammal-like therapsids, such as this Cynognathus, roamed Pangaea.

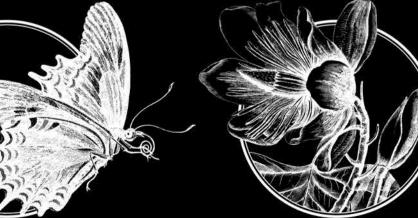


Lush forest As the climate dropped and more rain fell, big lush forests popped up with unusual trees like this monkey puzzle tree.



Pterosaurs Flying reptiles, close relatives of dinosaurs, such as this Kryptodrakon started to dominate the Jurassic skies.

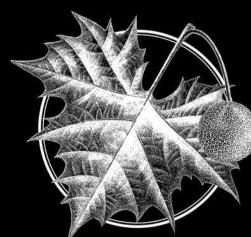




Pollinating insects These insect newcomers such as nectar-sucking butterflies were critical to the arrival of flowering plants.



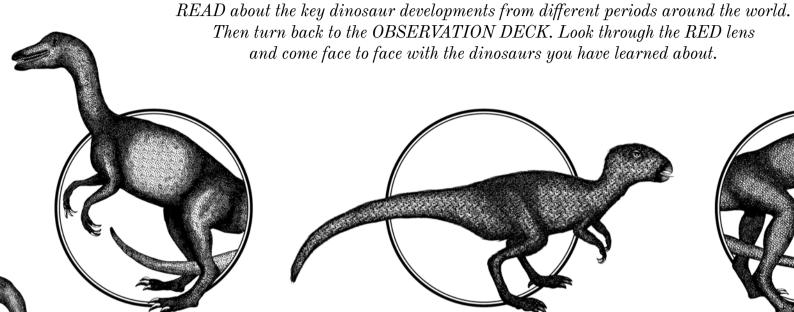
Flowering plants such as the tulip tree would have been pollinated by nectar-sucking butterflies and started blooming all over the planet.



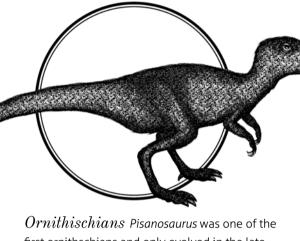
Broad-leaved trees Trees with big leaves, rather than fine needles, like this plane tree started to appear and provided heartier meals for big hungry sauropods.

DINOSAURS

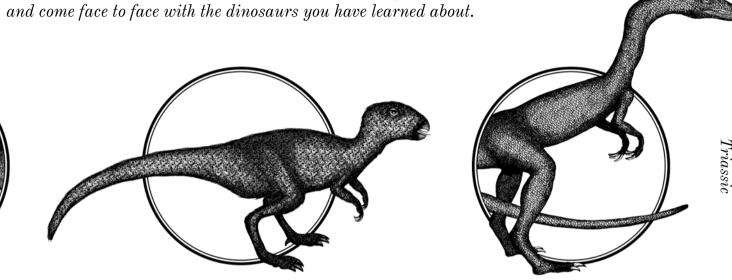
In Triassic times, dinosaurs were relatively small and only made up a small part of life on Earth. After a mass extinction event at the end of the Triassic period the dinosaurs were some of the main survivors and they became more dominant. More diverse species appeared over time as the landmasses drifted apart and they had to adapt to different climates, food and predators. But by the end of the Cretaceous period, dinosaurs had truly conquered every continent.



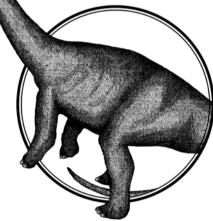
Sauropodomorph One of the first groups of dinosaur and this Saturnalia is thought to have been one of the earliest.



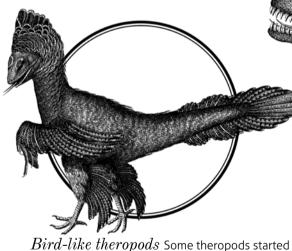
first ornithschians and only evolved in the late Triassic period.



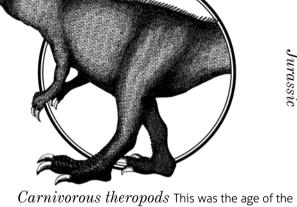
Small theropods The first meat-eating dinosaurs like this *Coelophysis* would have mostly been small scavengers.



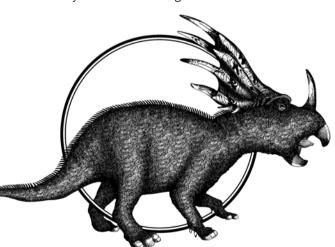
 ${\it Big\ sauropods}$ As trees grew taller, so did plant-eating sauropods like this *Diplodocus* so that they could reach the highest leaves.



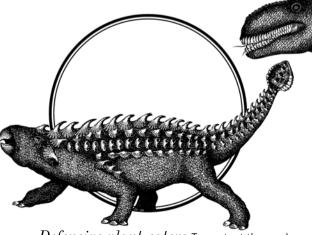
to look more like birds. This feathered *Anchiornis* grew wings and feathers but would not have been able to fly.



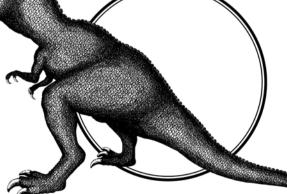
terrifying meat-eaters. They developed bigger bodies, strong leg muscles and this Yangchuanosaurus would have had a keen sense of smell.



Intimidating herbivores Frilled dinosaurs like the Styracosaurus would have been spoiling for a fight and were deliberately frilly to look intimidating.



Defensive plant-eaters To protect themselves from predators, herbivores started to grow their own suits of armour, like the Euoplocephalus which had a club tail and spikes all over its body.



Gigantic predators As prey developed better armour, predators had to become specialised killing machines like this ultra-tough Carcharodontosaurus.





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Written by Lucy Brownridge

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