



Sauropods were the largest animals EVER to have walked the earth! While palaeontologists might disagree about how big specific sauropods really were, we CAN be sure that titanosaurs like Argentinosaurus, Patagotitan and Dreadnoughtus were absolutely GIGANTIC. At around 60 tonnes, a Dreadnoughtus weighed more than 12 elephants. These plant-eating beasts had incredibly strong legs, long tails and towering necks with tiny heads.

Camarosaurus was a medium-sized sauropod with a shorter neck, and is the most common sauropod fassil found in North America. It had a blunt nose and an arched skull that gave it a very square head, with 19-centimetrong teeth shaped like chisels, for eating tough plants. The largest dinosaur femur (thigh bone) ever found belonged to the Patagotitan, an enormous titanosaur from South America. It was discovered by a farmer looking for his lost sheep, and was 2.4 metres tall. That's much taller than me!

If you're wondering how a

sauropod could hold such a long

and heavy neck in the air, their

neck bones were full of holes, like

honeycomb, which helped keep

them light but strong.

If you could name a sauropod, what would you call it?

> MEGASAURUS VERYBIGOSAURUS

A typical sauropod loved its greens, eating at least 45 kilograms of plants every single day. I reckon that's about 150 lettuces!

The heaviest Argentinosaurus may have weighed up to 100 tonnes, and reached 40 metres in length, from its nose to the tip of its tail!

ARGENTINOS AU

Brachiosaurus' forelimbs were taller than its hind legs, which gave it a steeper tummy than most sauropod and angled its neck high into the air. This must have been ideal for ripping leaves off the tallest trees.

Diplodocus was an extremely long dinosaur. Its tail made up almost half of its length – reaching 12 metres or more!

DIPLODOCUS

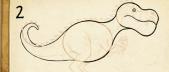
EUROPAST

Europasaurus was a small sauropod that lived in the late Jurassic period. They were isolated from the rest of the dinosaur world on an island, which might be why they only weighed about 800 kilograms – a similar weight to a horse, but they were less fluffy and had a NUCH longer neckl

## HOW TO DOODLE ... GIGANTOSAURUS

1

Gigantosaurus' body is an egg shape, with a head like a peanut. Draw those shapes, joined by a curved neck. Leave gaps for the legs, arms and tail.



Draw a long tail with a pointy end. Add a wavy line for his mouth, and draw a circle for his eye, with a dot in the middle.



Draw lots of teeth, pointing up and down, a chunky eyebrow and a thin nostril. Add a row of spikes along his back, from his head to the end of his tail.



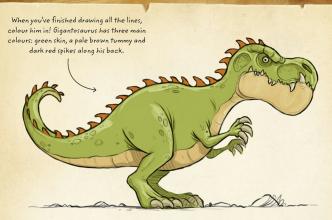
Next, draw Gigantosaurus' leg. Start with a chunky thigh, down to a long foot with pointy toenails. Draw his tiny arm, with three sharp claws.



Draw a line, from his mouth down his tummy and along his tail where his skin changes colour. Add the far-side leg and arm and shade them in.



Finally, add more details: hollows on his face, either side of his eye, scaly patches and wrinkles around his arms and legs.



If you want to draw Gigantosaurus even BIGGER, you could doodle on a BIG piece of paper instead.

# DINO DETAILS

Dinosaurs were impressive creatures, but they were even MORE impressive up close! While we can work out the shape of a dinosaur from its bones, it's harder to work out all the little details because fossils of skin and feathers and all the soft squidgy bits are harder to come by. But we do have clues...

#### Unique Physique

Ankylosaurus and Stegosaurus had tail weapons made from the same bony material called osteoderms, but they looked completely different.



Ankylosaurus had protective bony plates that grew from within its skin, armourplating its back. Stegosaurus bony plates looked like fans, sticking out of its body. But were these for fending off foes or for keeping it cool in the hot Jurassic sun?

#### Bumpy Skin

There are very few pieces of fossilised dinosaur skin, but there are trace fossils, where dinosaur skin has pressed into mud and left a pattern. These show us that dinosaurs had scaly skin.



Some theropod fossils show feathers growing from their scaly skin.

Chicken skin has a similar pattern to some dinosaur fossils, and the birds we know today are the closest living relatives of theropod dinosaurs.

Velociraptors had lots of feathers and looked quite bird-like, but I think I'd rather meet a chicken than a Velociraptor!





What colour was a dinosaur? Nobody really knows, because we can't see colours in fossils Palaeontologists and artists make a guess when they paint dinosaurs. We'd need dinosaur skin to work out their actual colours but, after 65 million years, it's too late for that!



#### Watch the Horns!

Iriceratops had lots of cousins with different horn arrays. Styracosaurus had six long pointy horns fanning from its neck frill. Regaliceratops' horns resembled a crown.



### Competitive Crests

While Parasaurolophus had the loudest prehistoric crest, other dinosaurs such as Dilophosaurus and Corythosaurus also had interesting crests atop their heads!

