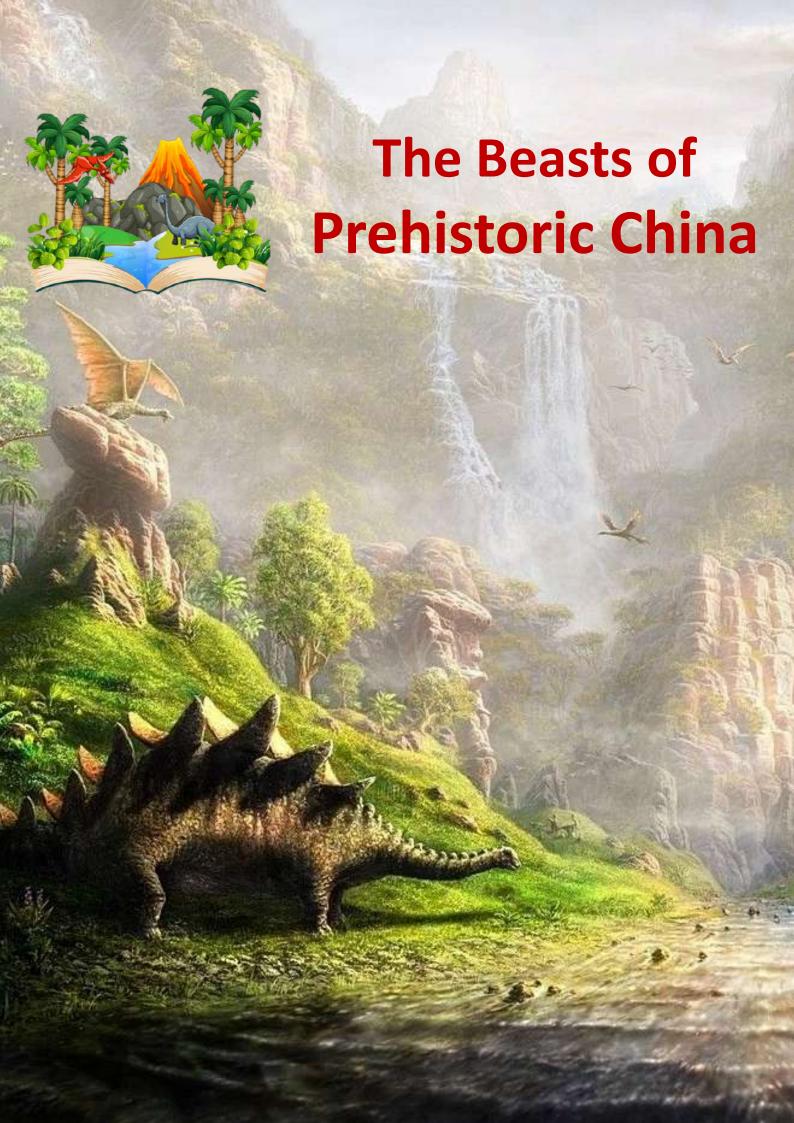


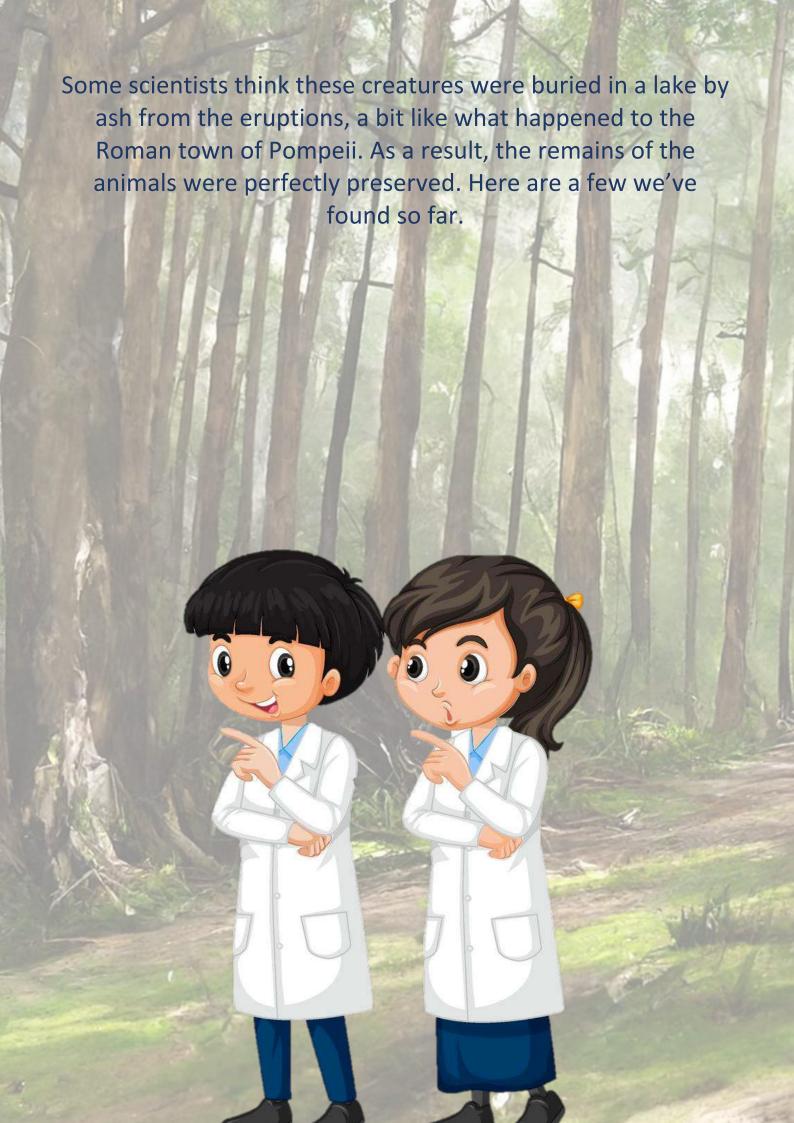
Some scientists have suggested they were draped in skin, forming a ginormous sail. Or maybe Amargasaurus had a hump, like a bison, behind the spikes? Some researchers even think that if Amargasaurus shook its neck, it could make sounds with the spines. The most common theory is that they were used for defence, possibly against meat-eating dinosaurs called Abelisauroids. What do you reckon the spikes were used for?





















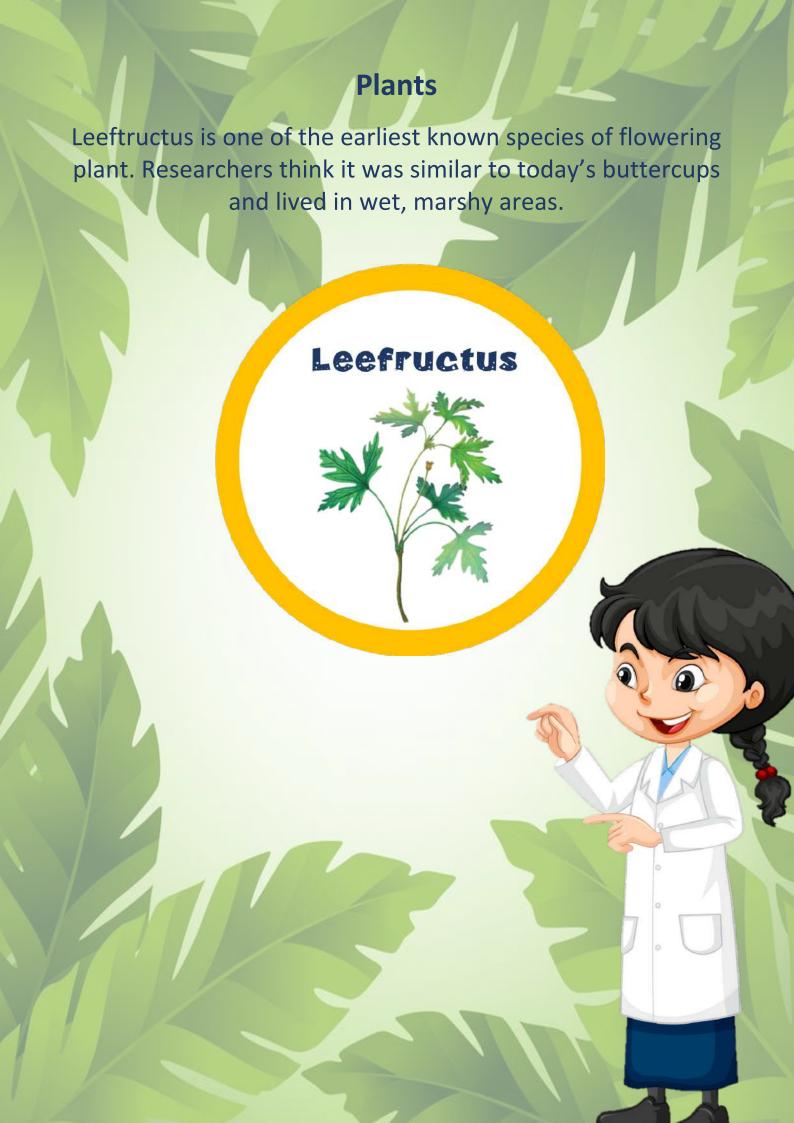










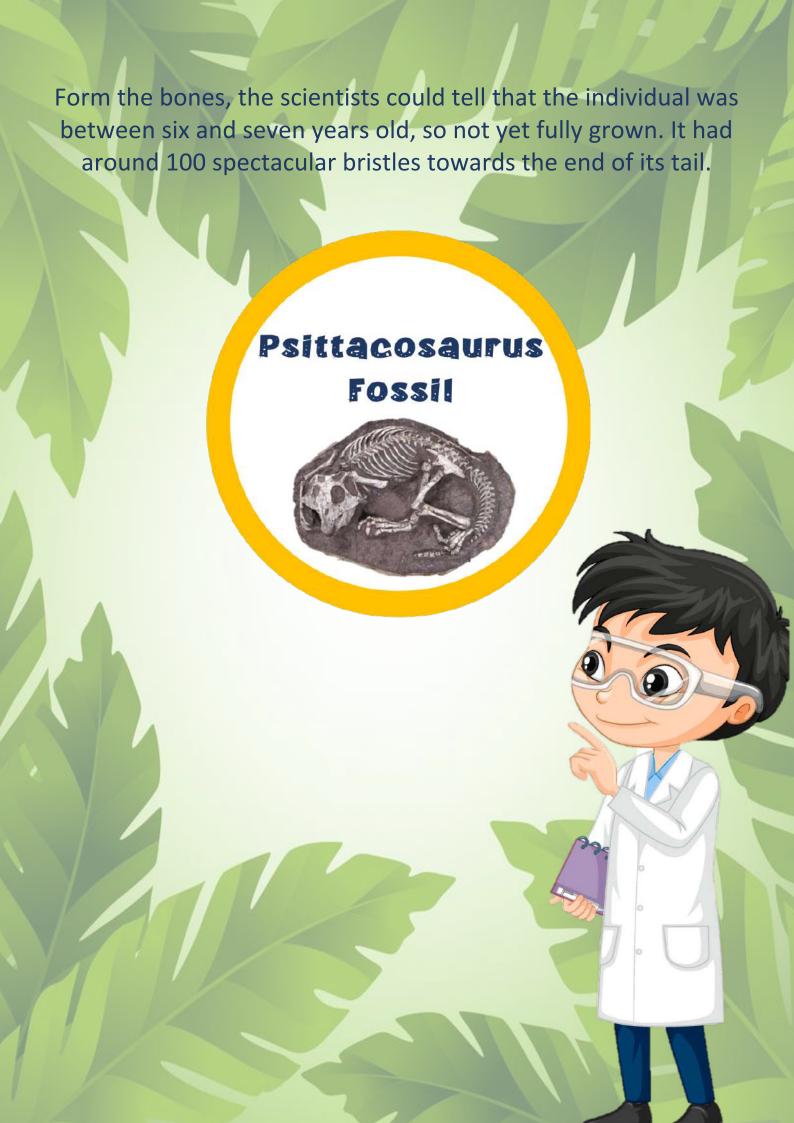




In 1923 palaeontologists announced a dinosaur called Psittacosaurus. It was a type of ceratopsian, with horns on the side of its face and a parrot-like beak that it used to eat plants. Unlike its relative Triceratops it was small, measuring only about 1.5 m (5 ft) long. Since its discovery, more than 400 individuals have been found across Asia – ranging from China to Mongolia and Siberia. But one specimen from the Jehol Biota of China was particularly special.







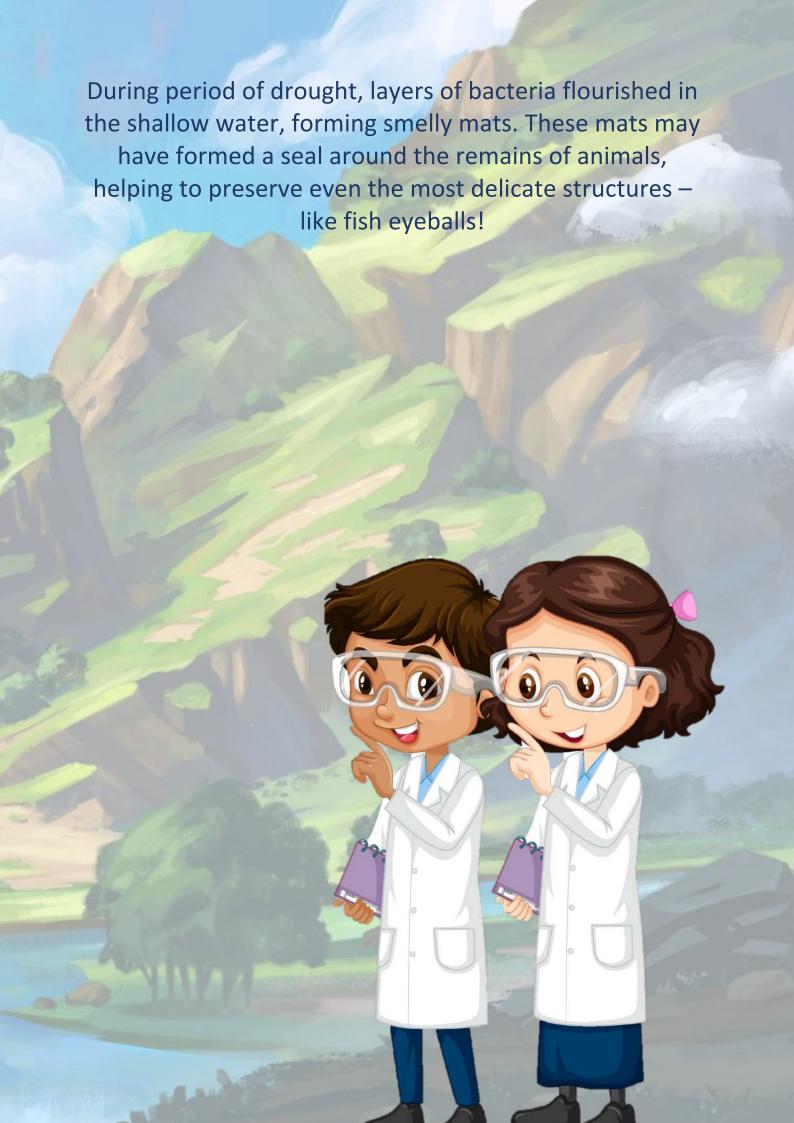
Psittacosaurus also had large eyes, so it probably lived in a low-light environment, perhaps under a forest canopy. It had three different kinds of scales: large flat scales, smaller angular scales and round pebble-like scales. Black and amber brown were the dominant colours, and the pattern of the colours showed Psittacosaurus used countershading. This is a type of camouflage usually used by prey animals, where they're darker on the back and lighter on the belly (like a penguin).





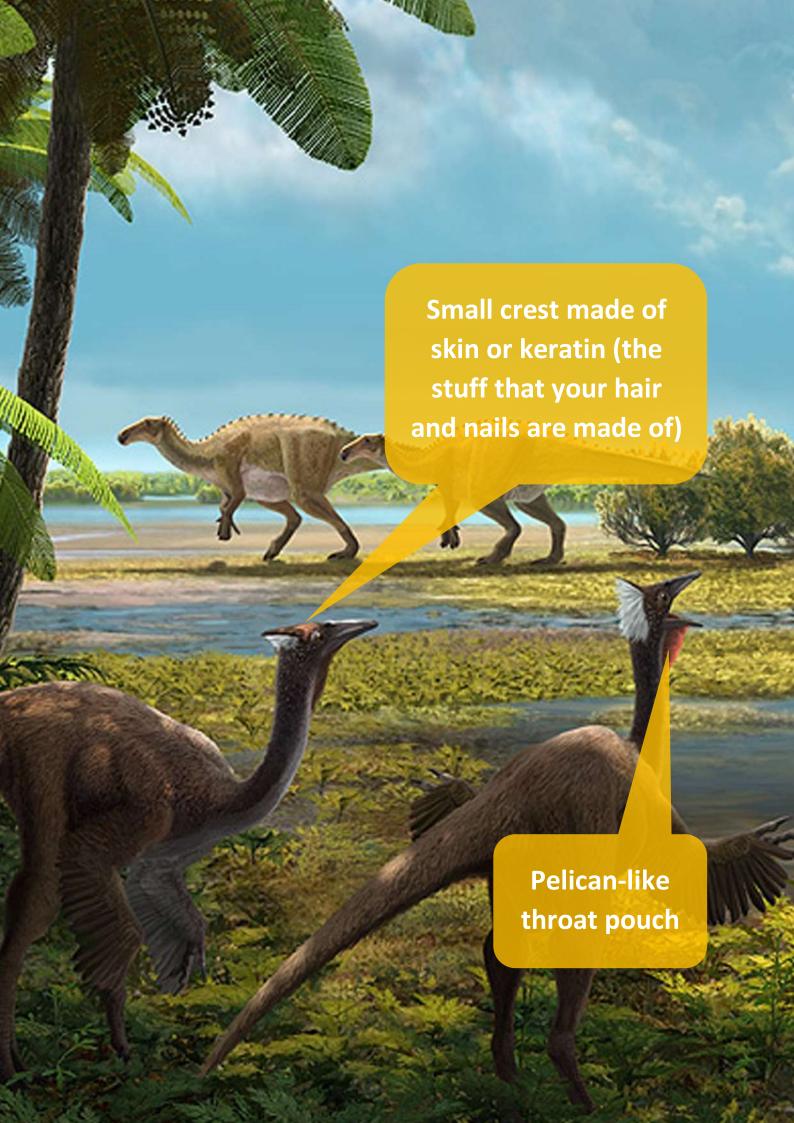






One of the unusual dinosaurs that roamed these wetlands was Pelecanimimus, a type of ornithomimosaur (an ostrich dinosaur). As its name suggests, it had skin pouch under its lower jaw, a bit like a pelican.





Pelecanimimus also had a soft crest on the back of its head, and fossils suggest it might have had feathers. Most ornithomimosaurs don't have teeth, but Pelecanimimus had around 220! And the teeth stopped about a third of the way back on the top jaw, making a long, flat area that might have been sued for ripping up small prey.





. It took palaeontologists seven years to prepare the specimen. When they were finished, they discovered that they were finished, they discovered that there were elongated spines on some of the back bones just before its hips. Concavenator had a humpback!

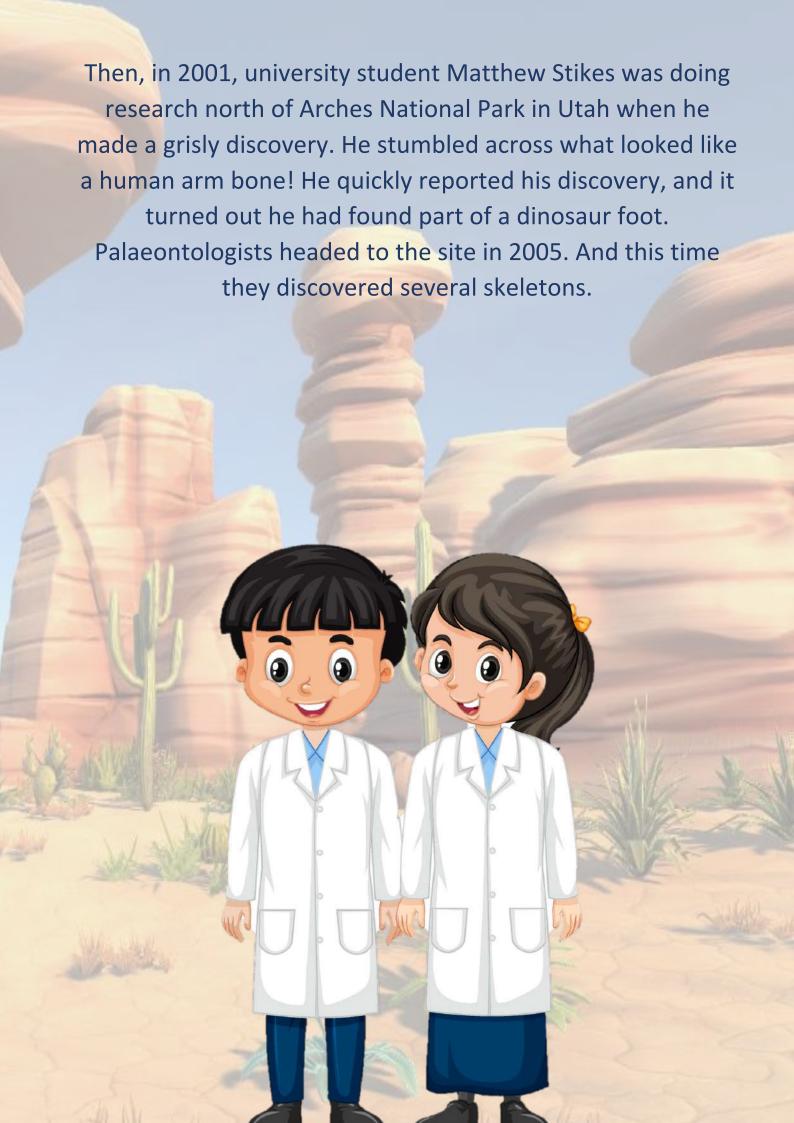


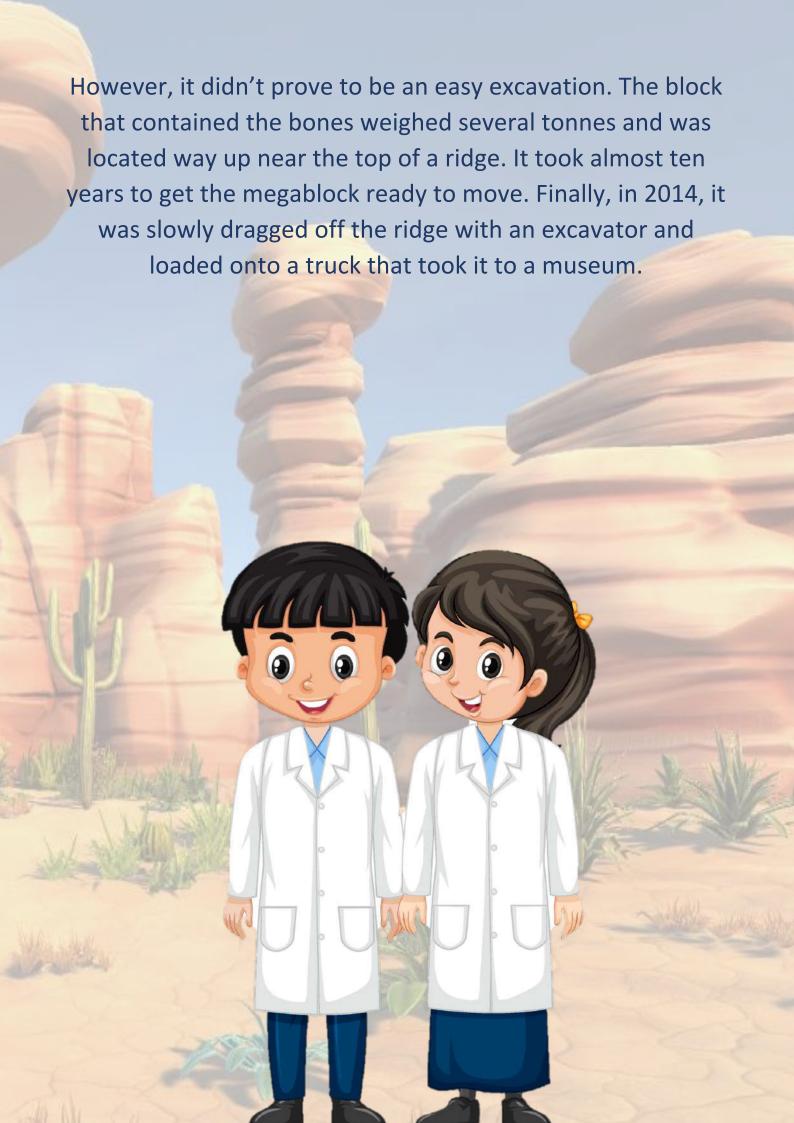




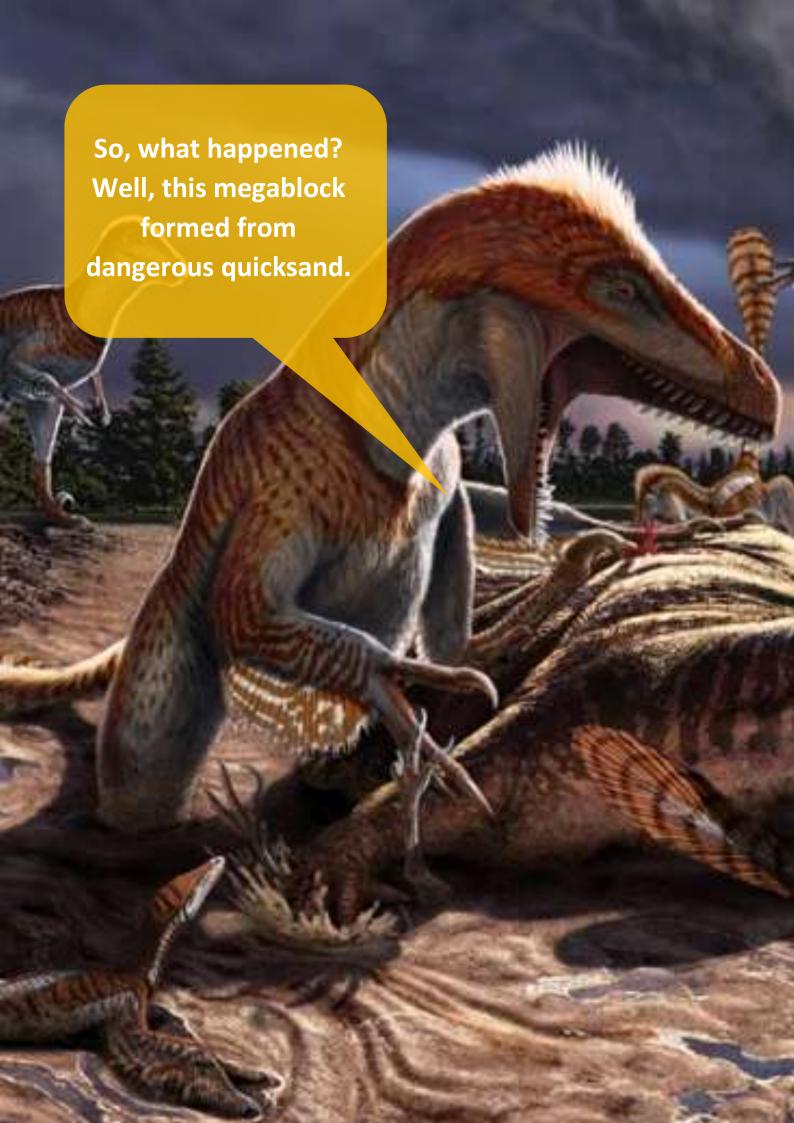












The iguanodonts may have become stuck first. Their calls, or the smell of their carcasses, attracted to Utahraptors, probably thinking they were going to get an easy meal. But they rapidly became stuck in the quicksand when their feathers were weighed down with mud. What palaeontologists don't know is whether the Utahraptors were part of a family group or if they got stuck separately. Maybe the megablock will reveal more secrets in the future...





The first dinosaur reconstructions are from the 1850s, and our understanding of them has changed a lot since!

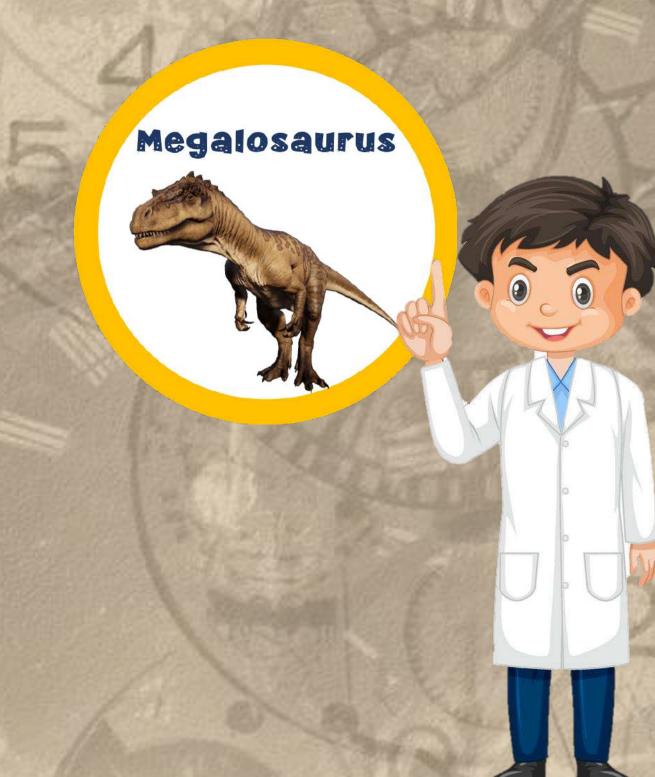
Dinosaurs have gone from slow-moving, tail-dragging lizards to agile creatures with complex lives.





### Megalosaurus

The first dinosaur to be scientifically named, in 1824. Originally it was thought it walked on four legs and was 12 m (39 ft) long. Today we think it walked on two legs and was 6-9 m (20-30 ft) long.



### Iguanodon

First thought to be a giant iguana with a spike on its nose. Palaeontologists now know the spikes were on its "thumbs" and were probably used to defend itself against predators.



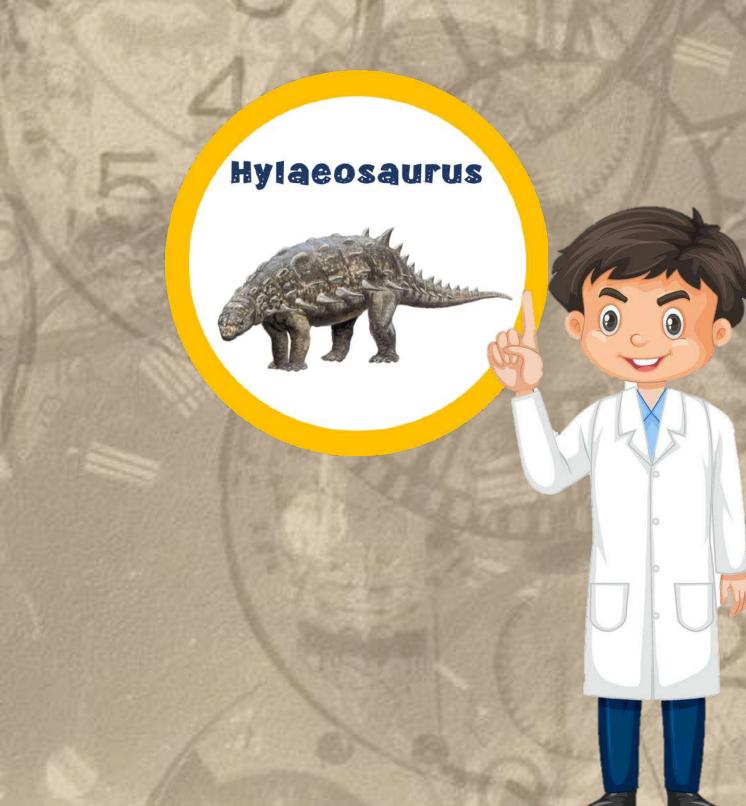
### **Deinonychus**

This discovery made scientists think dinosaurs were warm blooded, due to their body shape. We still think this is true, but we also now believed Deinonychus was covered in feathers.



### Hylaeosaurus

The first depictions showed a single row of spikes down the back. Palaeontologists now understand that this armoured dinosaur had spikes lined in two rows along its sides.



### **Diplodocus**

Scientists thought Diplodocus had a sprawling posture and was so heavy it spent most of its time in the water. Today we think it walked with its legs under its body and lived on land.



#### Stegosaurus

The classic idea of Stegosaurus gave off major Godzilla vibes by walking on two legs with spikes on its back and plates on its tail. This is the opposite of what we know today.



