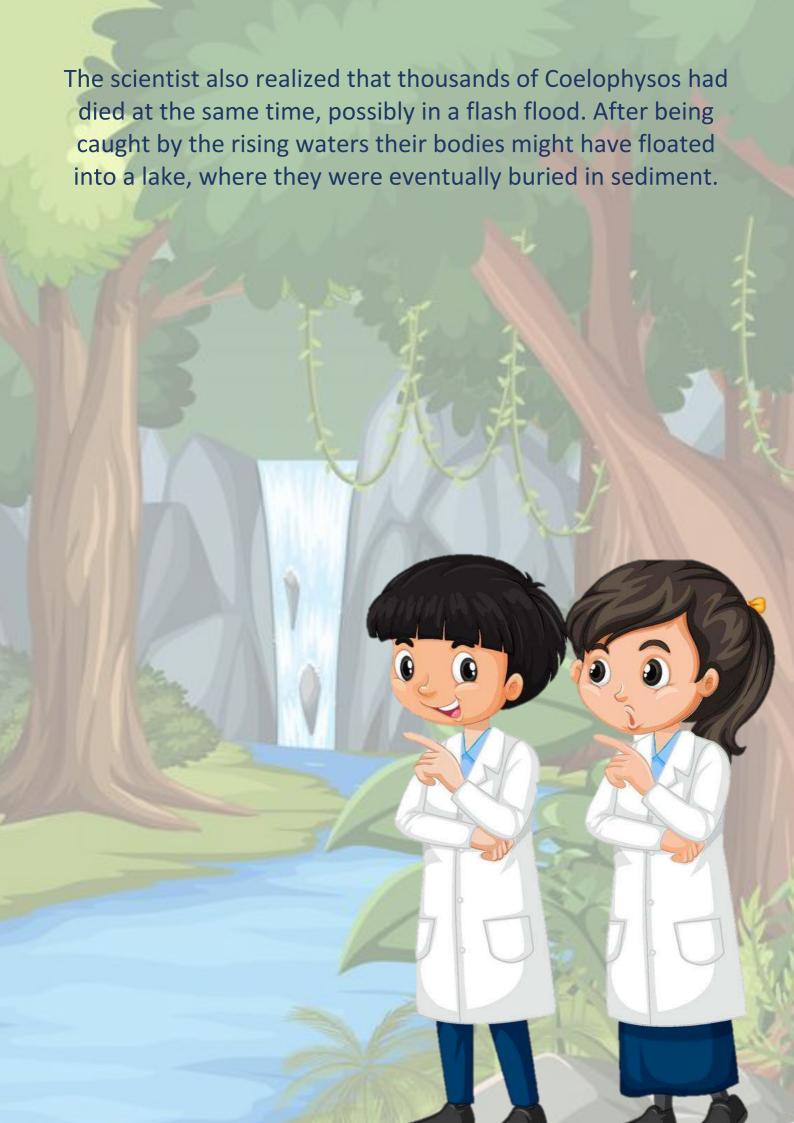




The skeletons ranged from hatchlings to fully grown adults, and they were usually found tangled together. A researcher was looking at two adult specimens when he noticed something unusual – there appeared to be baby Coelophysis bones where the stomach of one of the adults was. Could the adults have been eaten babies?





A few years later, researchers took another look at the two adults in an attempt to solve the mystery of the baby bones. The ribs of one of the adults were pulled back – possibly from the body exploding after death – making it nearly impossible to tell if any of the bones were originally in the stomach. The other skeleton did have some bones in its stomach, but they were from an extinct crocodile relative, not a baby Coelophysis. It seemed like the mystery had been solved.



Then, in 2009, palaeontologists investigated a different, fairly complete Coelophysis specimen. They noticed a cololite, a block of digested food that had not yet become a coprolite (fossilized poo – yes, that's a thing). Inside the cololite were the hands and feet of, you guessed it, baby Coelophysis! And there was also a skull with preserved vomit nearby that had baby Coelophysis jaws in it. So, it looks like Coelophysis were cannibals after all!







The earliest sauropods, called, sauropomorphs, appeared with the first dinosaurs around 230 million years ago. At first, they were small, only about as long as a motorbike, and they walked on two legs. So, when did sauropods get so big?





Working through 210-million-year-old bright red rock, Dr Cecilia Apaldetti and her team were excavating two partial skeletons. When they removed the bones, Cecilia scratched her head. This can't be right, she thought.

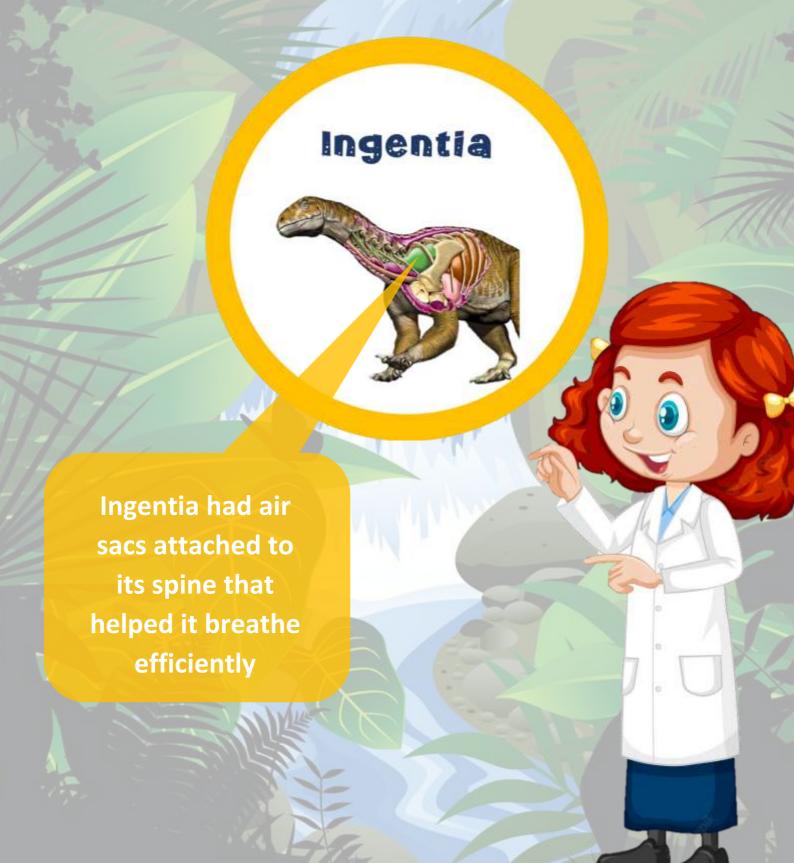


The dinosaur they had discovered, Ingentia, was roughly three times the size of the other Triassic dinosaurs! But Cecilia noted it definitely wasn't one of the later sauropods – it had a shorter neck, and its legs were more bendy. Excited, the team got to work finding out all they could about this gargantuan animal.



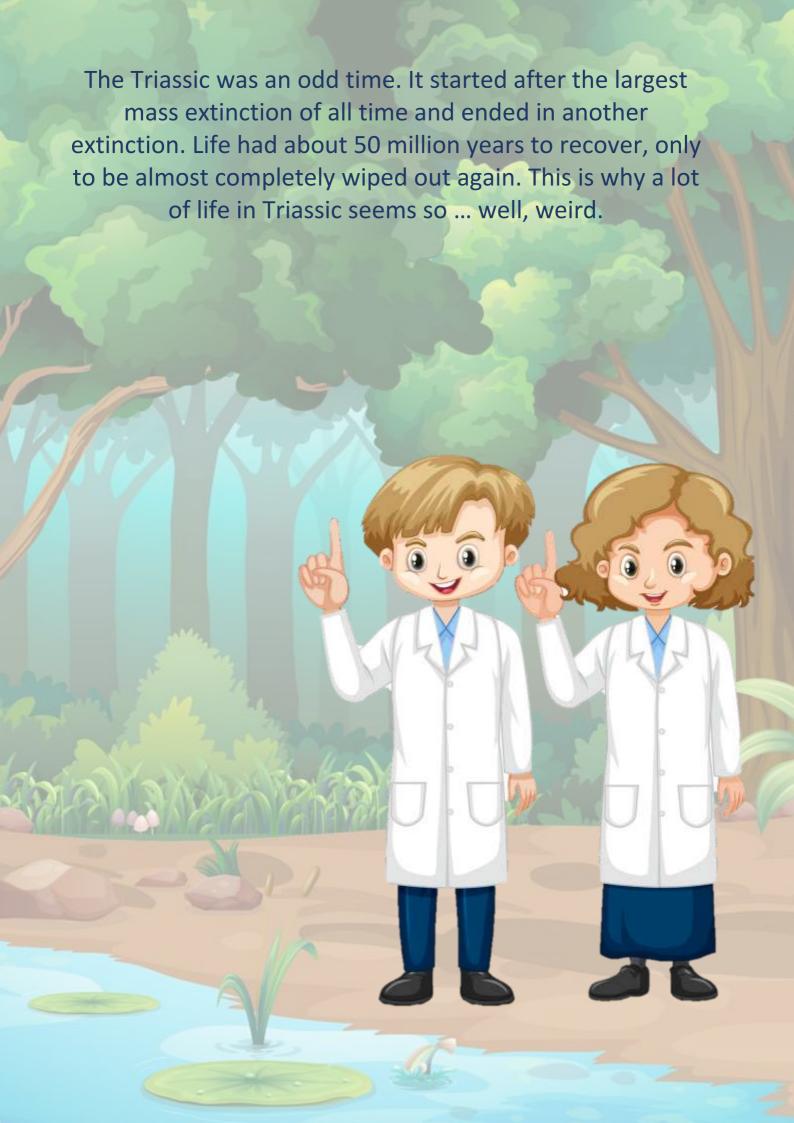


But while Ingentia grew differently, it might have breathed the same way as its larger relatives. The team discovered holes in its backbone that would have housed air sacs. These were part of a clever breathing system, like that used by birds, which meant Ingentia was able to get twice the amount of oxygen from a single deep breath.







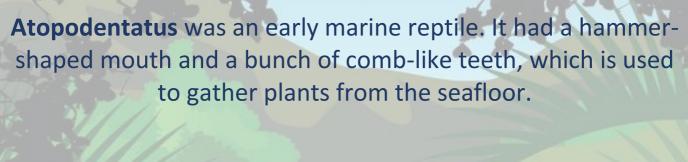






Shonisaurus was a type of reptile called an ichthyosaur. It was the largest marine reptile ever – the size of a modern fin whale. It's thought that the juveniles had teeth, but the adults were toothless. They lived in groups called pods, like dolphins.







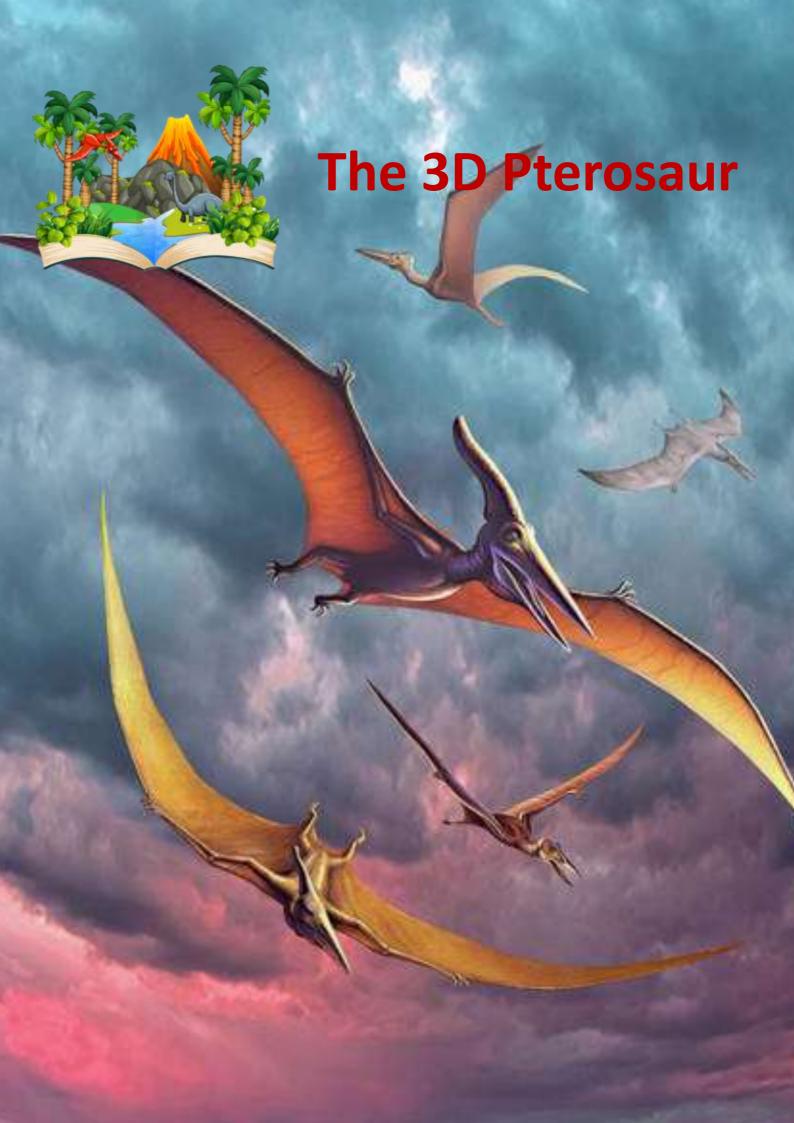




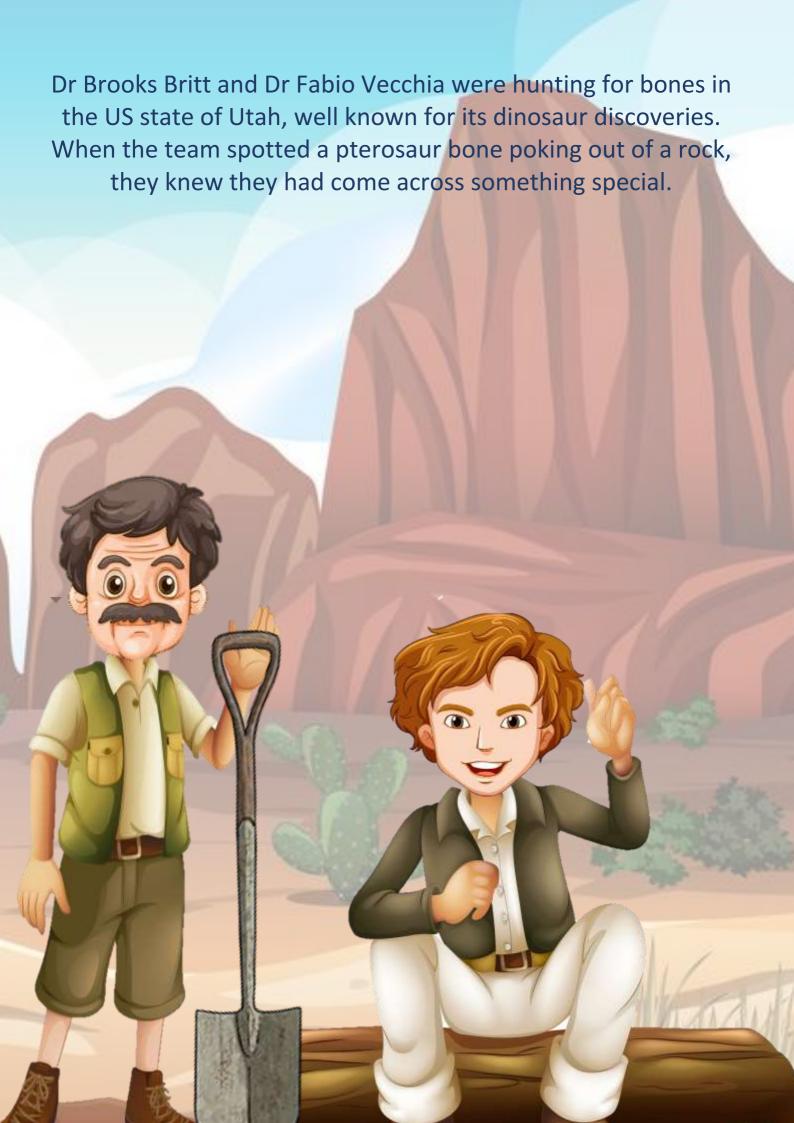




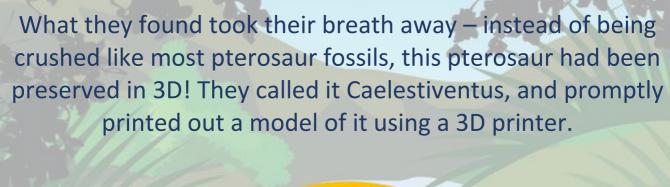














From the model they discovered that this 210-million-year-old was much larger than other Triassic pterosaurs. It also had a horn-like crest and a pelican-like throat pouch. Unlike pelicans, however, Caelestiventus lived around a lake surrounded by sand dunes in a giant desert, and there's no evidence there were fish nearby. So, this pterosaur probably spent its time hunting small reptiles.





Searching for dinosaurs in Antarctica is not easy, and that's putting it mildly. First, in case you hadn't noticed, Antarctica is covered in snow and ice. That means palaeontologists can only hunt for fossils on the tops of mountains that poke through the thick ice. This didn't deter geologist David Elliot.





If finding the fossil was difficult, excavating it was even harder. It took three weeks and the tea, had to use power tools like jackhammers and rock saws to remove large blocks of rock. Oh, and then the blocks had to be flown off the mountain by helicopters.





