

Before you start

Make sure you are viewing this PowerPoint in 'Slide Show' mode. Click on this icon on the bottom-right of your screen.



This will allow you to see the full resource and to use any interactivity.

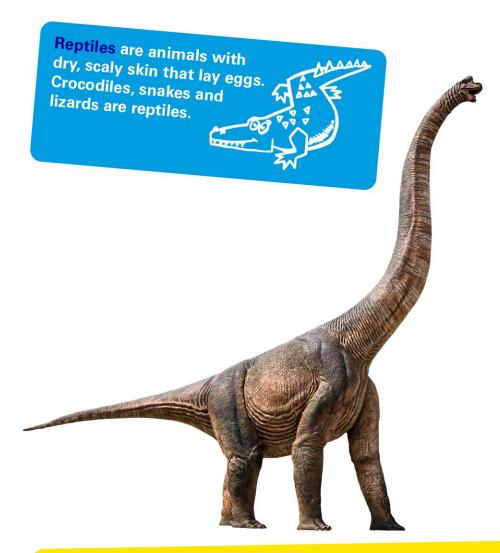


What's a dinosaur?

Dinosaurs are reptiles that lived on land millions of years ago. They are different from the **reptiles** alive today because of the position of their legs and how they stand.



Its legs stick out to the sides.

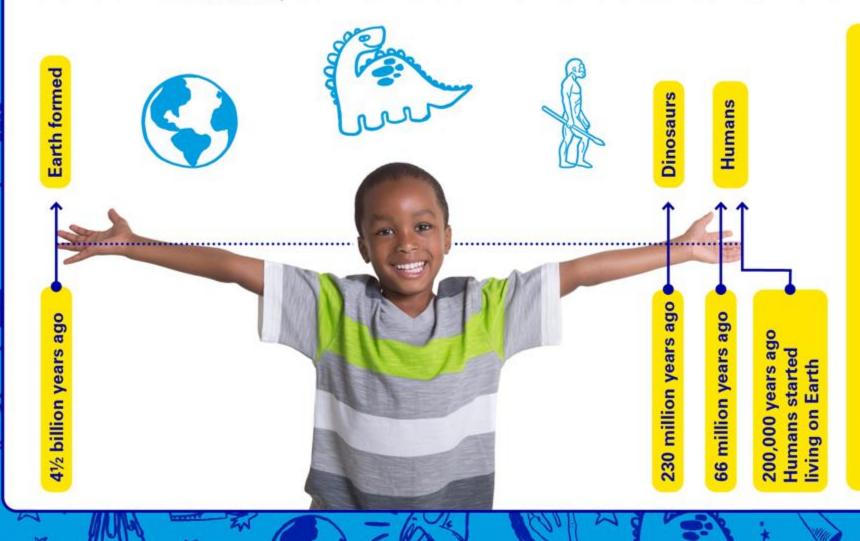


Its legs are under its body and it stands upright.

When were dinosaurs alive?



Dinosaurs lived on Earth between 230 and 66 million years ago. Humans have only been around for 200 thousand years. That means a human has never seen a dinosaur alive!



Try this to help you understand how long ago all of this happened.

- 1. Stretch out your arms.
 This shows you how long the Earth has existed.
- 2. The tip of your right hand is when Earth formed (4½ billion years ago.)
- The wrist of your left hand is when dinosaurs started living on Earth (230 million years ago).
- The bottom of your middle finger (left hand) is when the dinosaurs died out. (66 million years ago).
- 5. Just below the tip of your middle finger (left hand) is when the earliest humans started living on Earth (200,000 years ago).

How do we know about dinosaurs?

We know about dinosaurs from **fossils**. When a dinosaur died, its body was covered in sand and mud. The soft parts of its body normally rotted away but the hard bits, like the skeleton, stayed behind and became part of the rock.













Some dinosaurs were huge!

This is a leg bone.

Some dinosaurs had sharp claws.

What do you think they used them for?

Dinosaurs laid eggs.

How many can you see?

This is a fossilised dinosaur poo (a coprolite). We can find out what the dinosaur ate by looking inside the coprolite for pieces of animal bone and plants.

Who finds fossils?

Anyone can find a dinosaur fossil! You just need to be patient, look in the right places and have the right equipment.



Rock hammer For breaking rock around the fossil.



Brush For brushing away the broken rock.



Chisel Used with the hammer. for breaking rock.



Magnifying glass For looking closely at the fossil.



Tape measure For measuring the fossil.



Hat To protect you from the Sun.



Scientists who study fossils are called palaeontologists.







Mary Anning was a brilliant palaeontologist who lived more than 200 years ago. She found fossils of dinosaurs that had never been discovered before.

You are going to be a dinosaur detective!

STEM SOLLING

What does this fossil tell us about Tyrannosaurus rex?



Why did it have such big eyes?



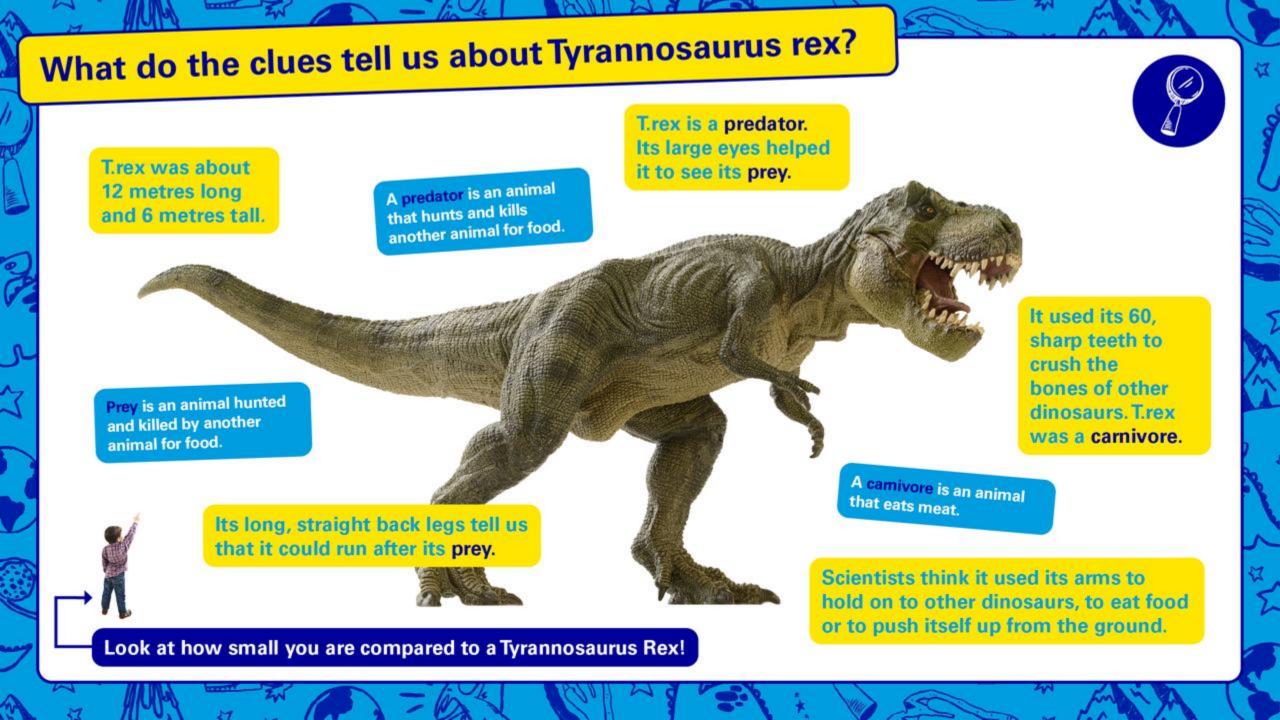
How big was it?

What do its legs tell us?

What do its teeth tell us?

What did it use its small arms for?

Go to the next slide to find out

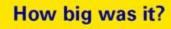


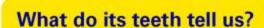


Look at the clues. What does this fossil tell us about Brachiosaurus?



Why did it have such a long neck?





Why are its front legs longer than its back legs?

Go to the next slide to find out







What do the clues tell us about Brachiosaurus?



An omnivore is an animal that eats both animals and plants.

Its long neck helped it to reach leaves at the top of trees.

Brachiosaurus was about 20 metres long and up to 16 metres tall.

It had blunt teeth that were perfect for stripping leaves from trees. Some herbivores had flat teeth (like the ones at the back of your mouth) for grinding plants.

Brachiosaurus was a herbiyore.

Its long front legs helped it to reach leaves high in the trees.

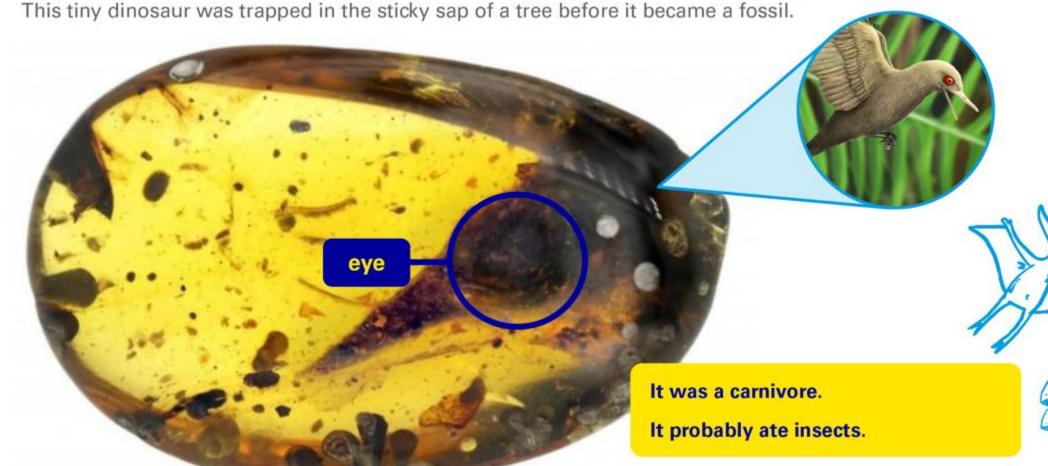


Look at how small you are compared to Brachiosaurus!



No. Some dinosaurs were about the same size as you and some were much smaller.

Look at this fossil of an Oculudentavis dinosaur. It's so small, you could hold it in your hand.





Are you a brilliant Dinosaur Detective?

True or false? Click to see the answers. If you get them all correct you are a brilliant Dinosaur Detective!



TRUE

Dinosaurs are reptiles that lived on land.



between 230 and 66 million years ago. **Dinosaurs were on Earth** 200 thousand years ago.

FALSE - Dinosaurs were on Earth



TRUE

Tyrannosaurus rex was a carnivore.



FALSE

Brachiosaurus was a herbivore.

Brachiosaurus was an omnivore.



TRUE

Fossils are found in rock.



A palaeontologist studies fossils. **FALSE**

A palaeontologist studies birds.





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