Its sail could have been used to regulate temperature, or to impress potential mates and intimidate rivals.

Its broad and flat feet were ideal for swimming.

Its strong tail was used as paddle to propel underwater.

How long was it? 16 m
How heavy was it? 7,000 kg
What did it eat? FISH

I lived before T-rex, and I was bigger!

How did it live?
Intertidal zones such as tidal flats, mangroves

Fossils found here:
SPINOSAURUS means ‘thorn lizard’

Gustavo Monroy-Becerrí

Intertidal
• Sooak limestone
• Mineral deposits
• Marine plants
• Fossilized organisms
• Coral reef and ocean floor

nps.gov/subjects/oceans/intertidal.htm
What do you get when you cross a dinosaur with fireworks?

To solve the riddle, answer the math questions below and use the letter key to find the right letters. The first letter is solved for you.

\[
\begin{align*}
10 + 1 &= \quad \quad \quad \quad 5 + 4 &= \quad 24 - 7 &= \quad 34 - 30 = \\
21 + 4 &= \quad 20 - 11 &= \quad 8 + 5 &= \quad 17 - 9 = \\
\end{align*}
\]

Letter key:

<table>
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<th>letter</th>
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<td>Z</td>
<td>26</td>
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\[
\begin{align*}
\text{Sfinosaurus - 2.2} \\
\end{align*}
\]
Write down all the words you can find in SPINOSAURUS. We found 78 words!

- pin
- piano
- air
The truth about dinosaurs

Dinosaurs were a group of reptiles that lived during the Mesozoic Era (251 million to 66 million years ago). Dinosaurs varied in size and shape, from the huge *Apatosaurus* to the tiny *Oculudentavis*, but they all shared several common features, such as laying eggs.

Read about the rest of these features below. Look at the pictures and circle the picture of the real dinosaur.

**Dimetredon**
Dinosaurs had an upright stance, meaning their legs were perpendicular to their body. This is the main feature that sets dinosaurs apart from other reptiles.

**Brachiosaurus**

**Velociraptor**
Dinosaurs lived on land, not in the sea. Some birds, such as penguins, could be considered an exception.

**Pterosaur**

**Red tegu**
Dinosaur skulls had a hole between the eye socket and nostril.

**Tyrannosaurus**

How to draw a spinosaurus

1. Draw ovals to outline head, neck, and body.

2. Draw tail and sail.

3. Add ovals and lines to outline limbs.

4. Add details around original ovals.

5. Erase ovals and add feet and face.

6. Add patterns and colors.
Reconstruct the skeleton
Imagine you are a paleontologist and you have found fossil bones. You have carefully excavated the fossilized bones and now need to reconstruct the skeleton. The skeleton reconstruction should be realistic for the animal you have discovered.

Cut out the bones along the dotted lines and put them together in the shape of a spinosaurus skeleton. Use tape to keep them in place.

A paleontologist is a scientist who studies the history of life on Earth using fossils.

Before 2018, only the grey colored bones had been discovered. After 2018, all the blue bones were discovered.

In 2018, 131 more bone fragments, including 36 vertebrae, were found in excavations in Morocco. These new bones completely changed our understanding of the Spinosaurus tail. The vertebra discovery provided evidence that the tail was used to move in water.
During the Mesozoic Era (Triassic, Jurassic, Cretaceous) dinosaurs lived with reptiles, insects, mammals, and fish. Below are pictures of 15 animals from the Mesozoic. Count how many dinosaurs, reptiles, insects, mammals, and fish are pictured below. Use the graph space below and chart the number of each animal type.
Mesozoic Scavenger Hunt

The Mesozoic landscape was very different to today's landscapes. There were fewer plants and animals than we see today, and flowering plants did not evolve until the end of the Mesozoic, during the Cretaceous. Early grasses did not appear until very late in the Cretaceous.

For your Mesozoic Scavenger Hunt try to find all of the plants and animals listed below. Check the box next to the picture once you have found one in nature. Good luck!