



TUCKER'S DINOSAUR CLUB



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SPINOSAURUS

means 'thorn lizard'

ma
66



Cretaceous

Where did it live?



Intertidal
zones
such as
tidal flats,
mangroves



INTERTIDAL

- Occur where land and ocean meet.
- Underwater during high tide, exposed to air during low tide.
- Many species call this their home.
- Found at parks where the ocean and land meet.

nps.gov/subjects/oceans/intertidal.htm

Fossils found here:

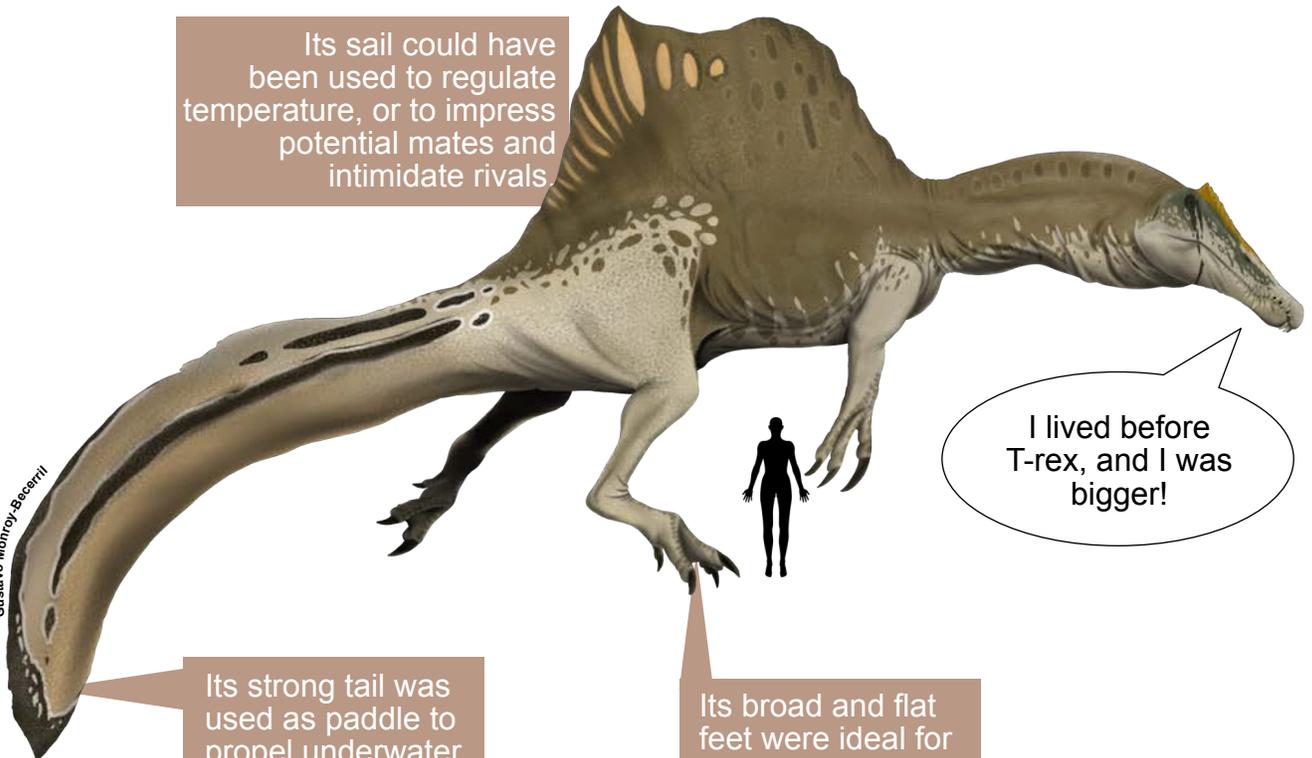


145

Jurassic

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

Gustavo Menroy-Becerra



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

Its strong tail was used as paddle to propel underwater.

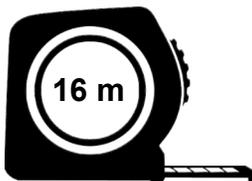
Its broad and flat feet were ideal for swimming.

201

Triassic

252

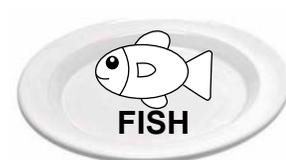
How long was it?



How heavy was it?



What did it eat?





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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.

① $10 + 1 =$ ||

② $5 + 4 =$

③ $24 - 7 =$

④ $34 - 30 =$

⑤ $21 + 4 =$

⑥ $20 - 11 =$

⑦ $8 + 5 =$

⑧ $17 - 9 =$

Letter key:

A	.....	3
B	.....	13
C	.....	23
D	.....	11
E	.....	8
F	.....	19
G	.....	42
H	16

I	9
J	39
K	22
L	6
M	25
N	17
O	4
P	21

Q	33
R	14
S	28
T	13
U	26
V	16
W	7
X	43

Y	29
Z	2

D

①

②

③

④

⑤

⑥

⑦

⑧





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Write down all the words can you find in SPINOSAURUS. We found 78 words!

pin

piano

air



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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.

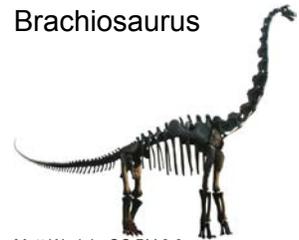
Dimetredon



Smokeybjb - CC BY-SA 3.0.

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



Matt Wedel - CC BY 3.0

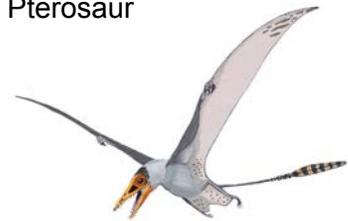
Velociraptor



Fred Wierum - CC BY-SA 4.0

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

Pterosaur



Dmitry Bogdanov - CC BY-SA 3.0

Red tegu



HCA -CC BY-SA 4.0

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

Tyrannosaurus

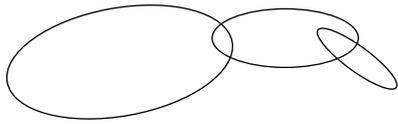


A.E. Anderson - <http://digitalibrary.amnh.org/dspace/handle/2246/49>, Public Domain

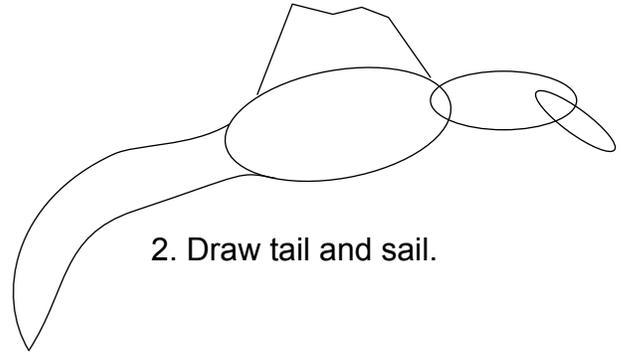


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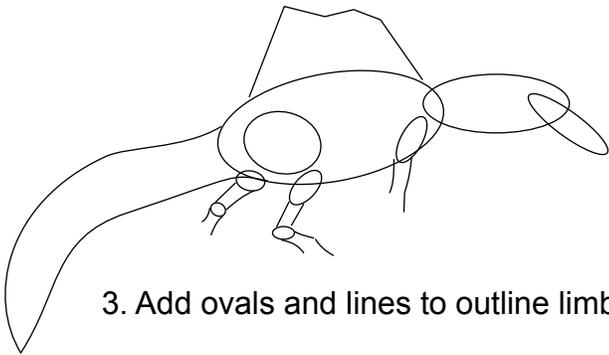
How to draw a spinosaurus



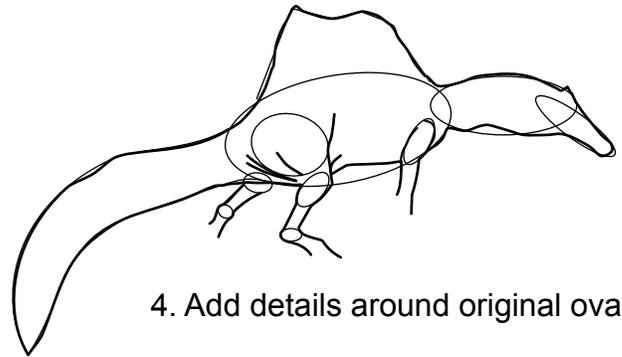
1. Draw ovals to outline head, neck, and body.



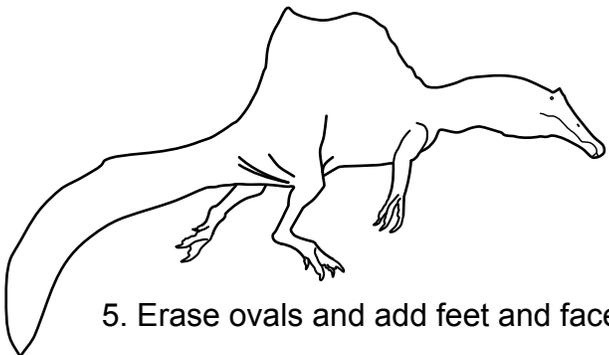
2. Draw tail and sail.



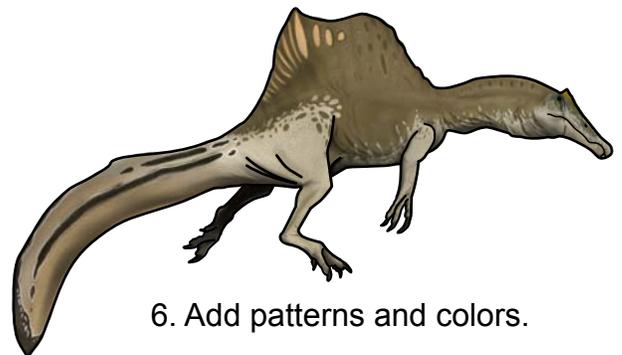
3. Add ovals and lines to outline limbs.



4. Add details around original ovals.



5. Erase ovals and add feet and face.



6. Add patterns and colors.



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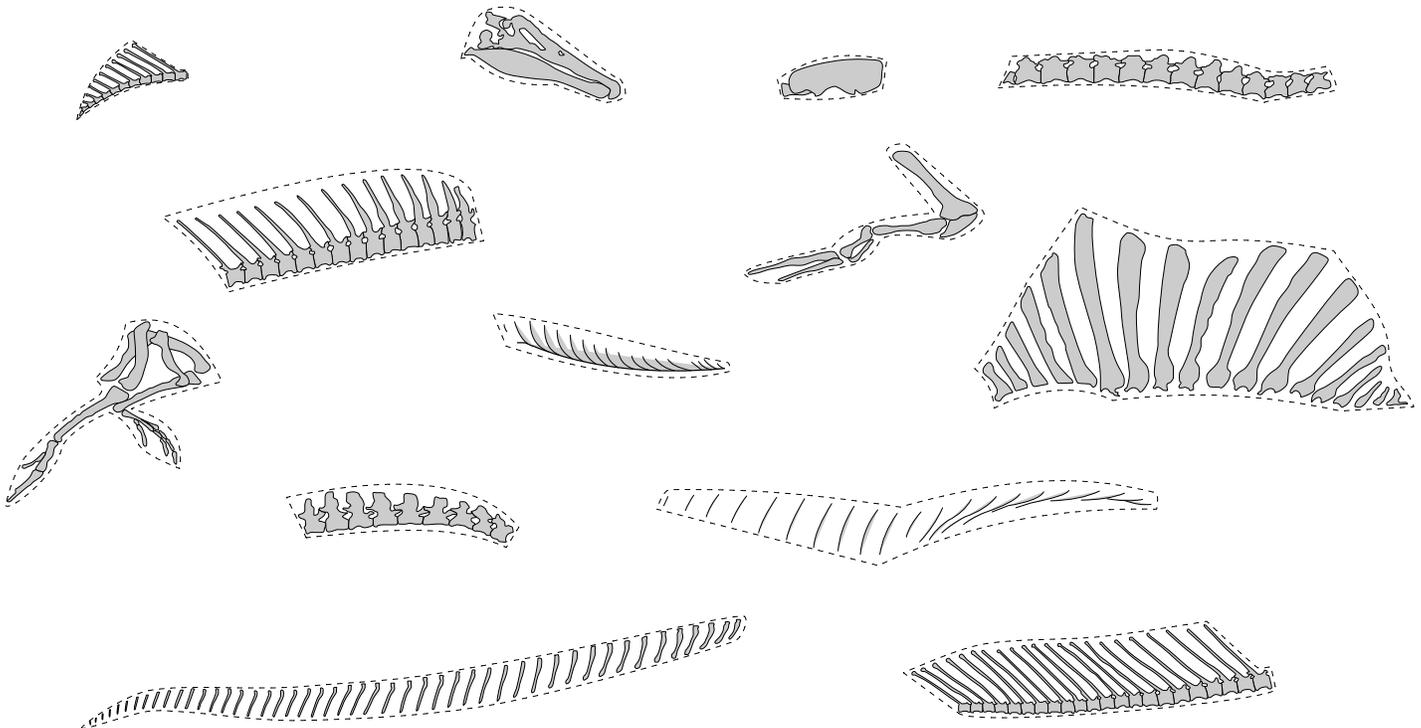
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Reconstruct the skeleton

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.

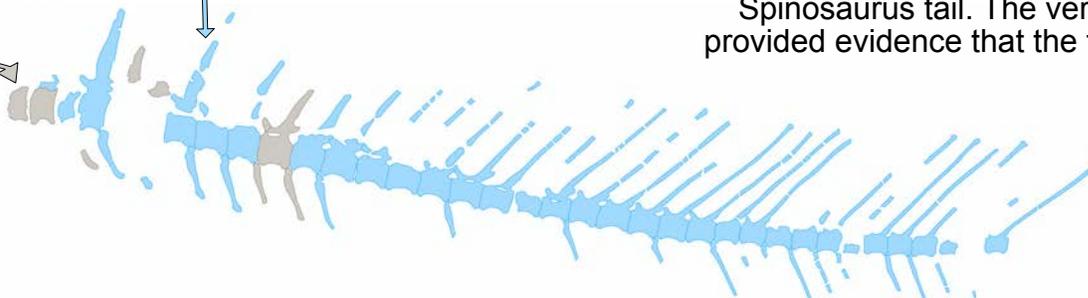
A paleontologist is a scientist who studies the history of life on Earth using fossils.

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.



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.





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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!



Monkey puzzle tree
(conifer)



cycad
(cycadophyte)



frog
(amphibian)



moss
(bryophyta)



dragonfly
(insect)



fern
(pteridophyte)



wasp
(insect)



redwood
(conifer)



magnolia
(angiosperm)



horsetail
(pteridophyte)



ginkgo



turtle
(reptile)