

Scientists believe dinosaurs sounded like birds

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Dinosaurs disappeared 65 million years ago, so we don't really know what they sounded like. Of course, there are many movies with dinosaurs making all kinds of roars, screeches and screams. However, these noises are just guesses that movie directors make

about how dinosaurs sounded. A new discovery has given scientists a better idea of the kinds of sounds dinosaurs made. The scientists examined a rare fossil. It was from a spiky, armoured dinosaur called an ankylosaur. The fossil is around 78 million years old. It includes a record of the ankylosaur's voice box. It is the world's oldest fossil of a voice box. The scientists believe the shape of the creature's voice box means it probably made bird-like sounds.

The research was led by Professor Junki Yoshida, a dinosaur researcher at the Fukushima Museum in Japan. Dr Yoshida did many tests on the shape of the fossilized voice box. He compared it with the voice box of dozens of birds, crocodiles, lizards and turtles. They now have a good idea of what the muscles around the voice box looked like. The muscles controlled the windpipe and sounds of the voice box. Yoshida's research may mean that movies like Jurassic Park got it wrong. Millions of years ago, the Tyrannosaurus rex probably made more of a tweeting sound, like a bird. Hollywood may have to change its scary roars and growls in future dinosaur films to a tweet-tweet sound.

Sources: [nytimes.com](https://www.nytimes.com) / [iflscience.com](https://www.iflscience.com) / [asahi.com](https://www.asahi.com)

Writing

We need to spend a lot more money on researching dinosaurs. Discuss.

Chat

Talk about these words from the article.

dinosaurs / 65 million years ago / movies / noises / discovery / fossil / voice box / research . professor / birds / crocodiles / lizards / Tyrannosaurus rex / roars / tweet

True / False

- 1) Dinosaurs first appeared on Earth 65 million years ago. T / F
- 2) Hollywood dinosaur movies use realistic noises for dinosaurs. T / F
- 3) The scientists used a fossil to work out dinosaur sounds. T / F
- 4) The scientists looked at a record of a dinosaur called an ankylosaur. T / F
- 5) The lead researcher works at a university in Japan. T / F
- 6) A researcher compared the dinosaur's voice box with a bird's. T / F
- 7) Muscles control voice boxes and sounds. T / F
- 8) Hollywood will no longer use roaring sounds in dinosaur movies T / F

Synonym Match

(The words in **bold** are from the news article.)

- | | |
|-----------------------|----------------|
| 1. disappeared | a. looked at |
| 2. kinds | b. films |
| 3. idea | c. think |
| 4. examined | d. regulated |
| 5. believe | e. vanished |
| 6. led | f. frightening |
| 7. controlled | g. opinion |
| 8. movies | h. upcoming |
| 9. scary | i. sorts |
| 10. future | j. conducted |

Discussion – Student A

- a) What do you know about dinosaurs?
- b) What's your favourite dinosaur?
- c) Did you love dinosaurs when you were a child?
- d) What do you think dinosaurs sounded like?
- e) What would it be like to have dinosaurs now?
- f) Do you have a favourite dinosaur movie?
- g) What do you think of fossils?
- h) What would you like to know about dinosaurs?

Phrase Match

- | | |
|--|--------------------------|
| 1. Dinosaurs disappeared | a. voice box |
| 2. dinosaurs making all kinds of roars, | b. and turtles |
| 3. A new discovery has given scientists a better | c. like sounds |
| 4. The scientists examined a rare | d. films |
| 5. it probably made bird- | e. fossil |
| 6. the shape of the fossilized | f. got it wrong |
| 7. dozens of birds, crocodiles, lizards | g. the windpipe |
| 8. The muscles controlled | h. 65 million years ago |
| 9. movies like Jurassic Park | i. idea |
| 10. in future dinosaur | j. screeches and screams |

Discussion – Student B

- What do you think about what you read?
- Would you like to be a dinosaur researcher?
- What do crocodiles, lizards and turtles sound like?
- What do you know about the Tyrannosaurus rex?
- Is it better that dinosaurs had a bird sound or a roar?
- What are your favourite animal sounds?
- Would you like scientists to use DNA to bring dinosaurs back?
- What questions would you like to ask the scientists?

Spelling

- Dinosaurs dedpparaeis 65 million years ago
- all kinds of asrro, screeches and screams
- A new cdeyriosv
- a ysipk, armoured dinosaur
- It is the world's oldest osifsl
- it abobpryl made bird-like sounds
- a dinosaur hrcerserea
- dzosne of birds
- crocodiles, lizards and rtulset
- the cessulm around the voice box
- the epipindw and sounds of the voice box
- tfueru dinosaur films

Answers – Synonym Match

1. e	2. I	3. g	4. a	5. c
6. j	7. d	8. b	9. f	10. h

Role Play

Role A – 65 Million Years Ago

You think the best period in time was 65 million years ago. Tell the others three reasons why. Tell them what is wrong with their times. Also, tell the others which is the worst of these (and why): 2,023 years ago, 500 years ago or 50 years ago.

Role B – 2,023 Years Ago

You think the best period in time was 2,023 years ago. Tell the others three reasons why. Tell them what is wrong with their times. Also, tell the others which is the worst of these (and why): 65 million years ago, 500 years ago or 50 years ago.

Role C – 500 Years Ago

You think the best period in time was 500 years ago. Tell the others three reasons why. Tell them what is wrong with their times. Also, tell the others which is the worst of these (and why): 2,023 years ago, 65 million years ago or 50 years ago.

Role D – 50 Years Ago

You think the best period in time was 50 years ago. Tell the others three reasons why. Tell them what is wrong with their times. Also, tell the others which is the worst of these (and why): 2,023 years ago, 500 years ago or 65 million years ago.

Speaking – Years Ago

Rank these with your partner. Put the most interesting ages to live at the top. Change partners often and share your rankings.

- | | |
|------------------------|-----------------|
| • 65 million years ago | • 500 years ago |
| • 10,000 years ago | • 200 years ago |
| • 2,023 years ago | • 100 years ago |
| • 1,000 years ago | • 50 years ago |

Answers – True False

1	F	2	F	3	T	4	T	5	F	6	T	7	T	8	F
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Answers to Phrase Match and Spelling are in the text.