



### .....Throat

Scientists think that dinosaur throats were similar to those of birds and crocodiles.

## Did dinosaurs roar?

That fearsome T. rex roar you've heard on screen may just be movie magic, as scientists think it might not have roared at all. Instead, it probably let out a rumbling boom that would still have sent shivers down your spine.

### Making sounds

Scientists have used crocodile and bird noises to recreate the sound they think a dinosaur made. Dinosaurs probably created a deep, grumbling sound rather than a roar, that would have been felt as well as heard.

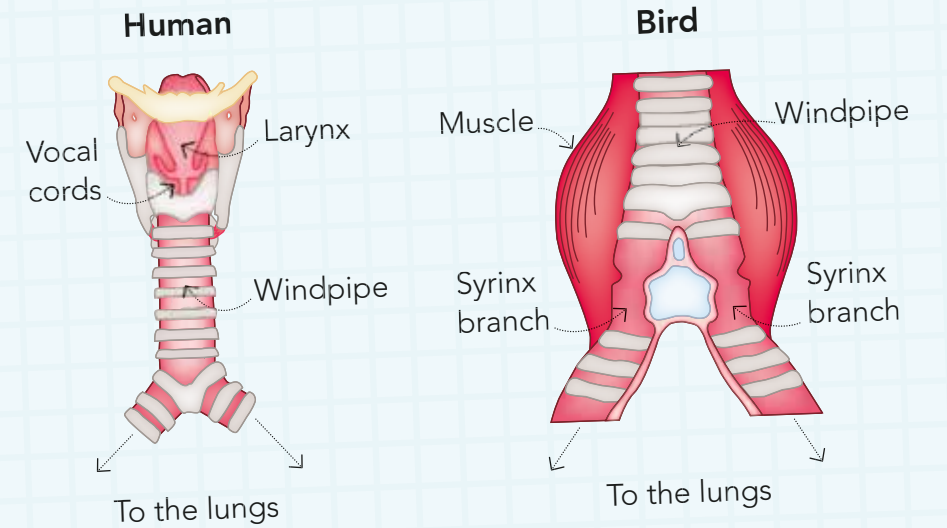
### ? Quick quiz

1. Did T. rex's mouth need to be open to make a noise?
2. What vibrates inside our throats to make sounds?
3. What animal sounds have scientists mixed together to create dinosaur noises?

See pages 130–131 for the answers

### How birds sing

We have a larynx, or voice box, at the top of our windpipe. It contains vocal cords that vibrate to make sounds. Modern birds have a syrinx, with two branches, at the bottom of their windpipe instead. Both branches vibrate separately so birds can make two sounds at once – like they're doing a duet by themselves!



### Jaws

T. rex had massive jaws, but it didn't need to open them to make a noise. Scientists think that T. rex could have made a noise with its mouth shut, as reptiles and birds do.

