



Reading: C1

How humans evolved language

Read an academic text about how humans evolved language to practise and improve your reading skills.

Before reading

Do the preparation task first. Then read the text and do the exercises.

Preparation task

Match the definitions (a-h) with the vocabulary (1-8).

Voca	bu	lary
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- 1. C... a chimpanzee
- 2. A. linguistics
- 3. .B. evolutionary
- 4. .F., civilised
- 5. G. to mutate
- 6. H., DNA
- 7. D. innate
- 8. E... an artefact

Definitions

- a. the study of language
- b. relating to the way in which living things develop over millions of years
- c. a species of ape
- d. existing in us since birth; natural rather than learned
- e. an object made by a human, especially one that is of historical interest
- f. socially advanced and developed
- g. to change into something different
- h. a chemical that carries genetic information

Reading text: How humans evolved language

Α

Thanks to the field of linguistics we know much about the development of the 5,000 plus languages in existence today. We can describe their grammar and pronunciation and see how their spoken and written forms have changed over time. For example, we understand the origins of the Indo-European group of languages, which includes Norwegian, Hindi and English, and can trace them back to tribes in eastern Europe in about 3000 BC.

So, we have mapped out a great deal of the history of language, but there are still areas we know little about. Experts are beginning to look to the field of evolutionary biology to find out how the human species developed to be able to use language. So far, there are far more questions and half-theories than answers.

В

We know that human language is far more complex than that of even our nearest and most intelligent relatives like chimpanzees. We can express complex thoughts, convey subtle



emotions and communicate about abstract concepts such as past and future. And we do this following a set of structural rules, known as grammar. Do only humans use an innate system of rules to govern the order of words? Perhaps not, as some research may suggest dolphins share this capability because they are able to recognise when these rules are broken.

C

If we want to know where our capability for complex language came from, we need to look at how our brains are different from other animals. This relates to more than just brain size; it is important what other things our brains can do and when and why they evolved that way. And for this there are very few physical clues; artefacts left by our ancestors don't tell us what speech they were capable of making. One thing we can see in the remains of early humans, however, is the development of the mouth, throat and tongue. By about 100,000 years ago, humans had evolved the ability to create complex sounds. Before that, evolutionary biologists can only guess whether or not early humans communicated using more basic sounds.

D

Another question is what is it about human brains that allowed language to evolve in a way that it did not in other primates? At some point, our brains became able to make our mouths produce vowel and consonant sounds, and we developed the capacity to invent words to name things around us. These were the basic ingredients for complex language. The next change would have been to put those words into sentences, similar to the 'protolanguage' children use when they first learn to speak. No one knows if the next step – adding grammar to signal past, present and future, for example, or plurals and relative clauses – required a further development in the human brain or was simply a response to our increasingly civilised way of living together.

Between 100,000 and 50,000 years ago, though, we start to see the evidence of early human civilisation, through cave paintings for example; no one knows the connection between this and language. Brains didn't suddenly get bigger, yet humans did become more complex and more intelligent. Was it using language that caused their brains to develop? Or did their more complex brains start producing language?

Ε

More questions lie in looking at the influence of genetics on brain and language development. Are there genes that mutated and gave us language ability? Researchers have found a gene mutation that occurred between 200,000 and 100,000 years ago, which seems to have a connection with speaking and how our brains control our mouths and face. Monkeys have a similar gene, but it did not undergo this mutation. It's too early to say how much influence genes have on language, but one day the answers might be found in our DNA.



Tasks

Task 1Match the headings with the parts of the text (A–E).

What we know	How linguistic capacity evolved	How unique are we?
The physical evidence	The tiny change that may separate us from monkeys	

A.	What we know
В.	How unique are we?
C.	The physical evidence
D.	How linguistic capacity evolved
E.	The tiny change that may separate us from monkeys

Task 2Are the sentences true or false?

	Answer	
1. Experts fully understand how the Hindi language developed.	True	False
2XThe grammar of dolphin language follows the same rules as human language.	True	False
√3. Brain size is not the only factor in determining language capability.	True	False
✓ 4. The language of very young children has something in common with the way our prehistoric ancestors may have spoken.	True	False
5XWhen people started using complex language, their brains got bigger.	True	False
√ 6. The role of genetics in language capacity is not yet clear.	True	False

Discussion

Do you think monkeys and dolphins have complex language like humans do?





Answers

Preparation task

- 1. c
- 2. a
- 3. b
- 4. f
- 5. g
- 6. h
- 7. d
- 8. e

Task 1

- A. What we know
- B. How unique are we?
- C. The physical evidence
- D. How linguistic capacity evolved
- E. The tiny change that may separate us from monkeys

Task 2

- 1. True
- 2. False
- 3. True
- 4. True
- 5. False
- 6. True