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Level 3 – 12th July, 2020

Origin of our teeth dates back 400 million years

FREE online quizzes, mp3 listening and more for this lesson here:

<https://breakingnewsenglish.com/2007/200712-human-teeth.html>

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Please try Levels 0, 1 and 2 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they have discovered how humans got teeth. The researchers are from Uppsala University in Sweden. They say that human teeth "first evolved 400 million years ago". They believe our teeth came from an ancient fish called an *acanthothoracid*. The researchers studied a fossil of the fish. It was difficult to study because the fish is encased in rock. The researchers had to use the strongest X-ray machine in the world to analyse it. They used the X-ray machine to "digitally dissect" the fish. The researchers discovered that the fish's teeth were amazingly similar to human teeth. The researchers also said humans and 60,000 species of jawed vertebrates living on Earth today come from this fish.

The researchers say the *acanthothoracid* was one of the earliest jawed vertebrates with teeth ever to live. They were very excited at seeing how similar its teeth were to ours. A co-author of the study, Professor Per Ahlberg, said: "These findings change our whole understanding of the origin of teeth." He commented on the similarity to the fish, saying: "Their jawbones resemble those of bony fish and seem to be directly ancestral to our own. When you grin at the bathroom mirror in the morning, the teeth that grin back at you can trace their origins right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary tree."

Sources: <https://www.dailymail.co.uk/sciencetech/article-8506673/Human-teeth-evolved-400-million-years-ago-strange-armoured-fish.html>
<https://www.inverse.com/science/miniature-ancient-reptile-discovery>
<https://www.earth.com/news/the-origin-of-human-teeth-dates-back-400-million-years/>

WARM-UPS

1. TEETH: Students walk around the class and talk to other students about teeth. Change partners often and share your findings.

2. CHAT: In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

researchers / humans / teeth / ancient / fish / fossil / rock / X-ray / machine / Earth / vertebrates / jaw / study / understanding / similarity / bathroom / mirror / origins

Have a chat about the topics you liked. Change topics and partners frequently.

3. FOSSILS: Students A **strongly** believe we need to spend more money on looking for and analysing fossils; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

4. VERTEBRATES: What do you know about these vertebrates? What would you like to know? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	What I Want To Know
Fish		
Amphibians		
Reptiles		
Birds		
Mammals		
Humans		

5. ANCIENT: Spend one minute writing down all of the different words you associate with the word "ancient". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

6. FISH: Rank these with your partner. Put the best fish at the top. Change partners often and share your rankings.

- Goldfish
- Clownfish
- Carp
- Salmon
- Piranha
- Swordfish
- Shark
- Eel

VOCABULARY MATCHING

Paragraph 1

- | | |
|---------------|---|
| 1. discovered | a. Very, very, very old. |
| 2. evolved | b. Find something or someone. |
| 3. ancient | c. A prehistoric insect or animal (or its shape) in a rock or stone. |
| 4. fossil | d. Covered in something. |
| 5. encased | e. Changed and develop gradually, especially from a something simple to something more complex. |
| 6. rock | f. Examine something by looking at it very closely and very carefully. |
| 7. analyse | g. The solid material forming part of the surface of the earth. |

Paragraph 2

- | | |
|------------------|---|
| 8. jaw | h. An animal with a backbone, including mammals, birds, reptiles, amphibians, and fish. |
| 9. vertebrate | i. Look or seem like. |
| 10. similar | j. The upper and lower bones around the mouth that contain the teeth. |
| 11. origin | k. Looking like something without being the same as it. |
| 12. resemble | l. Smile widely. |
| 13. origins | m. The point or place where something begins or starts. |
| 14. evolutionary | n. Relating to the gradual development of something. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

- a. Researchers from a university in Norway researched teeth. **T / F**
- b. Our teeth came from an ancient fish. **T / F**
- c. The researchers used the world's strongest X-ray machine. **T / F**
- d. The article said there are 60,000 species of fish living on Earth. **T / F**
- e. A fish called an *acanthothoracid* is the oldest fish ever to live. **T / F**
- f. Researchers were excited about the findings of their research. **T / F**
- g. Researchers recommended looking in the mirror at your teeth. **T / F**
- h. A researcher said they found a tree with teeth. **T / F**

2. SYNONYM MATCH: (The words in **bold** are from the news article.)

- | | |
|----------------------|----------------|
| 1. discovered | a. examine |
| 2. evolved | b. beginning |
| 3. ancient | c. developed |
| 4. analyse | d. thrilled |
| 5. species | e. thought |
| 6. excited | f. found |
| 7. findings | g. smile |
| 8. origin | h. type |
| 9. grin | i. of long ago |
| 10. expected | j. conclusion |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|--|---------------------------|
| 1. they have discovered how | a. of the study |
| 2. teeth first evolved | b. machine in the world |
| 3. the strongest X-ray | c. tree |
| 4. amazingly similar | d. humans got teeth |
| 5. 60,000 species | e. their origins |
| 6. one of the earliest jawed vertebrates | f. to human teeth |
| 7. A co-author | g. with teeth |
| 8. When you grin | h. of jawed vertebrates |
| 9. you can trace | i. at the bathroom mirror |
| 10. so deep on the evolutionary | j. 400 million years ago |

GAP FILL

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they have (1) _____ how humans got teeth. The researchers are from Uppsala University in Sweden. They say that human teeth "first (2) _____ 400 million years ago". They believe our teeth came from an (3) _____ fish called an *acanthothoracid*. The researchers studied a (4) _____ of the fish. It was difficult to study because the fish is encased in (5) _____. The researchers had to use the strongest X-ray machine in the world to analyse it. They used the X-ray (6) _____ to "digitally dissect" the fish. The researchers discovered that the fish's teeth were amazingly (7) _____ to human teeth. The researchers also said humans and 60,000 species of jawed vertebrates (8) _____ on Earth today come from this fish.

evolved
similar
rock
discovered
living
fossil
ancient
machine

The researchers say the *acanthothoracid* was one of the (9) _____ jawed vertebrates with teeth (10) _____ to live. They were very excited at seeing how similar its teeth were to ours. A co-author of the study, Professor Per Ahlberg, said: "These (11) _____ change our whole understanding of the origin of teeth." He commented on the (12) _____ to the fish, saying: "Their jawbones resemble those of bony fish and seem to be (13) _____ ancestral to our own. When you grin at the bathroom (14) _____ in the morning, the teeth that grin back at you can trace their (15) _____ right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary (16) _____."

findings
earliest
tree
directly
origins
ever
similarity
mirror

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

- 1) Researchers say they have discovered how _____
 - a. humans get teeth
 - b. humans got tooth
 - c. humans got teeth
 - d. humans get tooth
- 2) They say that human teeth first evolved 400 _____
 - a. millions years ago
 - b. million years ago
 - c. million year ago
 - d. millions yearly ago
- 3) It was difficult to study because the fish is _____
 - a. in case in rock
 - b. and cased in rock
 - c. in cased in rock
 - d. encased in rock
- 4) The researchers had to use the strongest X-ray machine in the world _____
 - a. to analyse sit
 - b. to analyse zit
 - c. to analysis it
 - d. to analyse it
- 5) The researchers also said humans and 60,000 _____ vertebrates
 - a. specials of jawed
 - b. species of jawed
 - c. specimens of jawed
 - d. speeches of jawed
- 6) one of the earliest jawed vertebrates with teeth _____
 - a. ever to live
 - b. even to live
 - c. never to live
 - d. every to live
- 7) They were very excited at seeing how similar its teeth _____
 - a. wart ours
 - b. wart too ours
 - c. were to ours
 - d. were two ours
- 8) When you grin at the _____
 - a. bathroom mirrored
 - b. bathroom mirror
 - c. bathroom mirrors
 - d. bathroom mirroring
- 9) the teeth that grin back at you can _____
 - a. trace them origins
 - b. trace them origins
 - c. trace they origins
 - d. trace their origins
- 10) Nobody expected to find teeth so deep on _____
 - a. the evolution re-tree
 - b. the evolutionary tree
 - c. the evolve stationary
 - d. thee voluntary tree

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they (1) _____ humans got teeth. The researchers are from Uppsala University in Sweden. They say that human teeth "(2) _____ million years ago". They believe our teeth came from an ancient fish called an *acanthothoracid*. The researchers studied (3) _____ the fish. It was difficult to study because the fish is encased in rock. The researchers had to use (4) _____ machine in the world to analyse it. They used the X-ray machine (5) _____ the fish. The researchers discovered that the fish's teeth were amazingly similar to human teeth. The researchers also said humans and 60,000 (6) _____ vertebrates living on Earth today come from this fish.

The researchers say the *acanthothoracid* was one (7) _____ jawed vertebrates with teeth ever to live. They were very excited at seeing how (8) _____ were to ours. A co-author of the study, Professor Per Ahlberg, said: "These findings change (9) _____ of the origin of teeth." He commented on the similarity to the fish, saying: "Their jawbones (10) _____ bony fish and seem to be directly ancestral to our own. When you grin at the bathroom mirror in the morning, the teeth (11) _____ at you can trace their origins right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth (12) _____ the evolutionary tree."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

1. In which country is the university that conducted this study?
2. When did researchers say human teeth first evolved?
3. What was the fish encased in?
4. What did researchers use the X-ray machine to do?
5. How many species of jawed vertebrates on Earth come from this fish?
6. How did the researchers feel about their research?
7. Who is Professor Per Ahlberg?
8. What did a professor say the research changed their understanding of?
9. What did a researcher say you might grin in front of in the morning?
10. On what did a researcher not expect to find teeth so deep?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

- 1) In which country is the university that conducted this study?
 - a) Norway
 - b) Sweden
 - c) Finland
 - d) Denmark
- 2) When did researchers say human teeth first evolved?
 - a) 400,000 years ago
 - b) 4 million years ago
 - c) 40 million years ago
 - d) 400 million years ago
- 3) What was the fish encased in?
 - a) diamond
 - b) concrete
 - c) rock
 - d) mud
- 4) What did researchers use the X-ray machine to do?
 - a) dissect the fish
 - b) find the fish
 - c) draw the fish
 - d) age the fish
- 5) How many species of jawed vertebrates on Earth come from this fish?
 - a) six thousand
 - b) sixty thousand
 - c) sixteen thousand
 - d) sixty-six thousand
- 6) How did the researchers feel about their research?
 - a) excited
 - b) relieved
 - c) tired
 - d) depressed
- 7) Who is Professor Per Ahlberg?
 - a) a journalist
 - b) a fish expert
 - c) a co-author of the study
 - d) a dentist
- 8) What did a professor say the research changed their understanding of?
 - a) the origin of teeth
 - b) fish
 - c) X-ray machines
 - d) humans
- 9) What did a researcher say you might grin in front of in the morning?
 - a) the bus stop
 - b) a newspaper
 - c) the kitchen
 - d) the bathroom mirror
- 10) On what did a researcher not expect to find teeth so deep?
 - a) the past
 - b) in our mouth
 - c) the evolutionary tree
 - d) a fish

ROLE PLAY

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Role A – Goldfish

You think goldfish are the best fish. Tell the others three reasons why. Tell them what is wrong with their fish. Also, tell the others which is the least interesting of these (and why): salmon, piranha or sharks.

Role B – Salmon

You think salmon are the best fish. Tell the others three reasons why. Tell them what is wrong with their fish. Also, tell the others which is the least interesting of these (and why): goldfish, piranha or sharks.

Role C – Piranha

You think piranha are the best fish. Tell the others three reasons why. Tell them what is wrong with their fish. Also, tell the others which is the least interesting of these (and why): salmon, goldfish or sharks.

Role D – Shark

You think sharks are the best fish. Tell the others three reasons why. Tell them what is wrong with their fish. Also, tell the others which is the least interesting of these (and why): salmon, piranha or goldfish.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'human' and 'teeth'.

human	teeth

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none">• how• 400• studied• strongest• amazingly• today	<ul style="list-style-type: none">• earliest• excited• findings• seem• trace• tree
---	---

TEETH SURVEY

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Write five GOOD questions about teeth in the table. Do this in pairs. Each student must write the questions on his / her own paper.

When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

TEETH DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'human'?
3. What do you think of teeth?
4. What are the functions of teeth?
5. What do you think of your teeth?
6. What do you do to look after your teeth?
7. How did our teeth come from an ancient fish?
8. How would you like to improve your teeth?
9. Why do people study fossils
10. Would you like to study fossils?

Origin of our teeth dates back 400 million years – 12th July, 2020
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TEETH DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'teeth'?
13. What do you think about what you read?
14. How important are teeth?
15. What would you like to know about teeth?
16. What problems do people have with their teeth?
17. How often do you grin in front of the mirror?
18. Do you think our teeth should be sharper?
19. What do you think of false teeth?
20. What questions would you like to ask the researchers?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they have discovered (1) _____ humans got teeth. The researchers are from Uppsala University in Sweden. They say that human teeth "(2) _____ evolved 400 million years ago". They believe our teeth came from an ancient fish called an *acanthothoracid*. The researchers studied a (3) _____ of the fish. It was difficult to study because the fish is encased in rock. The researchers had to use the (4) _____ X-ray machine in the world to analyse it. They used the X-ray machine to "digitally dissect" the fish. The researchers discovered that the fish's teeth were (5) _____ similar to human teeth. The researchers also said humans and 60,000 species of jawed vertebrates living on Earth today (6) _____ from this fish.

The researchers say the *acanthothoracid* was one of the earliest jawed vertebrates with teeth (7) _____ to live. They were very excited at seeing how similar its teeth were (8) _____ ours. A co-author of the study, Professor Per Ahlberg, said: "These findings change our whole understanding of the origin of teeth." He commented on the (9) _____ to the fish, saying: "Their jawbones resemble those of bony fish and seem to be (10) _____ ancestral to our own. When you grin at the bathroom mirror in the morning, the teeth that grin back at you can (11) _____ their origins right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary (12) _____."

Put the correct words from the table below in the above article.

- | | | | | |
|-----|----------------|---------------|------------------|----------------|
| 1. | (a) how | (b) now | (c) know | (d) who |
| 2. | (a) fast | (b) last | (c) first | (d) lastly |
| 3. | (a) docile | (b) fissure | (c) pasture | (d) fossil |
| 4. | (a) strangest | (b) strongest | (c) stingiest | (d) stringent |
| 5. | (a) amazement | (b) amazed | (c) amazing | (d) amazingly |
| 6. | (a) have | (b) do | (c) come | (d) go |
| 7. | (a) even | (b) never | (c) ever | (d) every |
| 8. | (a) for | (b) by | (c) to | (d) as |
| 9. | (a) likelihood | (b) akin | (c) differential | (d) similarity |
| 10. | (a) cavity | (b) enamel | (c) toothy | (d) directly |
| 11. | (a) trace | (b) sketch | (c) draw | (d) hunt |
| 12. | (a) bush | (b) shrub | (c) tree | (d) twig |

SPELLING

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Paragraph 1

1. they have ecordveids how humans got teeth
2. first dlevveo 400 million years ago
3. our teeth came from an ceiatnn fish
4. researchers studied a fslosi of the fish
5. used the X-ray machine to altiidyg dissect the fish
6. 60,000 species of jawed rttbvareese

Paragraph 2

7. They were very dicxete
8. the nrioig of teeth
9. commented on the imslayiirt to the fish
10. Their jawbones smeeblre those of bony fish
11. you can trace their iogirsn
12. deep on the yevolouairtn tree

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Number these lines in the correct order.

- () machine in the world to analyse it. They used the X-ray machine to "digitally dissect" the fish. The researchers discovered
- () The researchers say the acanthothoracid was one of the earliest jawed vertebrates with teeth ever to
- () of the fish. It was difficult to study because the fish is encased in rock. The researchers had to use the strongest X-ray
- () of teeth." He commented on the similarity to the fish, saying: "Their jawbones resemble those of bony fish and seem
- (**1**) Researchers say they have discovered how humans got teeth. The researchers are from
- () live. They were very excited at seeing how similar its teeth were to ours. A co-author of the
- () morning, the teeth that grin back at you can trace their origins right back to the first jawed
- () that the fish's teeth were amazingly similar to human teeth. The researchers also
- () study, Professor Per Ahlberg, said: "These findings change our whole understanding of the origin
- () vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary tree."
- () ago". They believe our teeth came from an ancient fish called an acanthothoracid. The researchers studied a fossil
- () to be directly ancestral to our own. When you grin at the bathroom mirror in the
- () said humans and 60,000 species of jawed vertebrates living on Earth today come from this fish.
- () Uppsala University in Sweden. They say that human teeth "first evolved 400 million years

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

1. discovered how teeth . got have Researchers humans
2. first Human 400 evolved ago . teeth years million
3. a studied fossil the fish . researchers of The
4. had use strongest machine . Researchers X-ray the to
5. species Humans of and jawed vertebrates . 60,000
6. of the teeth . with One jawed earliest vertebrates
7. similar its were . how teeth seeing Excited at
8. whole Our of understanding teeth . origin the of
9. the the bathroom mirror Grin in at morning .
10. find Nobody expected so to deep . teeth

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they have *discovery* / *discovered* how humans got teeth. The researchers are from Uppsala University in Sweden. They say that human *tooth* / *teeth* "first evolved 400 million years ago". They *believe* / *belief* our teeth came from an *ancient* / *anchor* fish called an *acanthothoracid*. The researchers studied a fossil *off* / *of* the fish. It was difficult to study because the fish is encased *on* / *in* rock. The researchers had to use the strongest X-ray machine in the world to *analyse* / *realise* it. They used the X-ray machine to "digitally *dissect* / *insect*" the fish. The researchers discovered that the fish's teeth were *amazed* / *amazingly* similar to human teeth. The researchers also said humans and 60,000 *specials* / *species* of jawed vertebrates living on Earth today come from this fish.

The researchers say the *acanthothoracid* was one of *an* / *the* earliest jawed vertebrates with teeth ever to *lively* / *live*. They were very excited at seeing how similar its teeth were to *hours* / *ours*. A co-author of the study, Professor Per Ahlberg, said: "These findings *change* / *charge* our whole understanding of the *origin* / *original* of teeth." He commented on the similarity to the fish, saying: "Their jawbones *resemble* / *tumble* those of bony fish and seem to be directly ancestral to our *down* / *own*. When you grin at the bathroom mirror *in* / *on* the morning, the teeth that grin back at you can *brace* / *trace* their origins right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary *tree* / *shrub*."

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

R_s__ r c h_r s s_y t h_y h_v_ d_s c_v_r_d h_w
h_m_n s g_t t__ th. Th_ r_s__ r c h_r s _r_ f_r_m
U p p s_l_ U n_v_r s_t y _n S w_d_n. Th_y s_y th_t
h_m_n t__ th " f_r s_t _v_l v_d 4 0 0 m_l l__ n y__
r s _g_". Th_y b_l__ v__ _r t__ th c_m_ f_r_m _n
_n c__ n t f_s h c_l l_d _n _c_n t h_t h_r_c_d. Th_
r_s__ r c h_r s s t_d__ d _ f_s s_l _f th_ f_s h. It
w_s d_f f_c_l t t_ s t_d y b_c__ s_ th_ f_s h _s _n
c_s_d _n r_c k. Th_ r_s__ r c h_r s h_d t_ _s_ th_
s t_r_n g_s t X - r_y m_c h_n _n th_ w_r_l d t_ _n_l
y s_ _t. Th_y _s_d th_ X - r_y m_c h_n_ t_ "
d_g_t_l l y d_s s_c t" th_ f_s h. Th_ r_s__ r c h_r s
d_s c_v_r_d th_t th_ f_s h 's t__ th w_r_ _m_z_n g
l y s_m_l_r t_ h_m_n t__ th. Th_ r_s__ r c h_r s
l s s__ d h_m_n s _n d 6 0 , 0 0 0 s p_c__ s _f
j_w_d v_r t_b r_t_s l_v_n g _n E_r t h t_d_y c_m_ f
r_m th_s f_s h.

Th_ r_s__ r c h_r s s_y th_ _c_n t h_t h_r_c_d w_s
_n _f th_ __ r_l__ s t j_w_d v_r t_b r_t_s w_t h t__
th _v_r t_ l_v_. Th_y w_r_ v_r y _x c_t_d _t
s__ n g h_w s_m_l_r _t s t__ th w_r_ t__ r s. A
c_-_ th_r _f th_ s t_d y, P_r_f_s s_r P_r A h_l b_r
g, s__ d: " Th_s_ f_n d_n g s c_h_n g__ _r w_h_l_
_n d_r s t_n d_n g _f th_ _r_g_n _f t__ th. " H_
c_m m_n t_d _n th_ s_m_l_r_t y t_ th_ f_s h,
s_y_n g: " Th__ r j_w b_n s r_s_m b_l_ th_s_ _f
b_n y f_s h _n d s__ m t_ b_ d_r_c t_l y _n c_s t_r_l
t__ r _w_n. W_h_n y__ g_r_n _t th_ b_t h_r__ m
m_r_r_r _n th_ m_r_n_n g, th_ t__ th th_t g_r_n
b_c k _t y__ c_n t_r_c_ th__ r _r_g_n s r_g h t
b_c k t_ th_ f_r s t j_w_d v_r t_b r_t_s. " A_n_t h_r
r_s__ r c h_r s__ d: " N_b_d y _x p_c t_d t_ f_n d
t__ th s_ d__ p _n th_ _v_l_t__ n_r y t_r__ . "

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

researchers say they have discovered how humans got teeth the researchers are from uppsala university in sweden they say that human teeth first evolved 400 million years ago they believe our teeth came from an ancient fish called an *acanthothoracid* the researchers studied a fossil of the fish it was difficult to study because the fish is encased in rock the researchers had to use the strongest xray machine in the world to analyse it they used the xray machine to digitally dissect the fish the researchers discovered that the fishs teeth were amazingly similar to human teeth the researchers also said humans and 60000 species of jawed vertebrates living on earth today come from this fish

the researchers say the *acanthothoracid* was one of the earliest jawed vertebrates with teeth ever to live they were very excited at seeing how similar its teeth were to ours a coauthor of the study professor per ahlberg said these findings change our whole understanding of the origin of teeth he commented on the similarity to the fish saying their jawbones resemble those of bony fish and seem to be directly ancestral to our own when you grin at the bathroom mirror in the morning the teeth that grin back at you can trace their origins right back to the first jawed vertebrates another researcher said nobody expected to find teeth so deep on the evolutionary tree

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2007/200712-human-teeth.html>

Researchers say they have discovered how humans got teeth. The researchers are from Uppsala University in Sweden. They say that human teeth "first evolved 400 million years ago". They believe our teeth came from an ancient fish called an acanthocephalid. The researchers studied a fossil of the fish. It was difficult to study because the fish is encased in rock. The researchers had to use the strongest X-ray machine in the world to analyse it. They used the X-ray machine to "digitally dissect" the fish. The researchers discovered that the fish's teeth were amazingly similar to human teeth. The researchers also said humans and 60,000 species of jawed vertebrates living on Earth today come from this fish. The researchers say the acanthocephalid was one of the earliest jawed vertebrates with teeth ever to live. They were very excited at seeing how similar its teeth were to ours. A co-author of the study, Professor Per Ahlberg, said: "These findings change our whole understanding of the origin of teeth." He commented on the similarity to the fish, saying: "Their jaw bones resemble those of bony fish and seem to be directly ancestral to our own. When you grin at the bathroom mirror in the morning, the teeth that grin back at you can trace their origins right back to the first jawed vertebrates." Another researcher said: "Nobody expected to find teeth so deep on the evolutionary tree."

HOMework

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

3. TEETH: Make a poster about teeth. Show your work to your classmates in the next lesson. Did you all have similar things?

4. PERFECT: Write a magazine article about the government paying for us all to have perfect teeth. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on teeth. Ask him/her three questions about them. Give him/her three of your ideas on how to look after your teeth. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1. b 2. e 3. a 4. c 5. d 6. g 7. f
8. j 9. h 10. k 11. m 12. i 13. l 14. n

TRUE / FALSE (p.5)

- a F b T c T d F e F f T g F h F

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

- Sweden
- About 400 million years ago
- Rock
- Digitally dissect the fish
- Sixty thousand
- Excited
- A co-author of the study
- The origin of teeth
- The bathroom mirror
- The evolutionary tree

WORDS IN THE RIGHT ORDER (p.20)

- Researchers have discovered how humans got teeth.
- Human teeth first evolved 400 million years ago.
- The researchers studied a fossil of the fish.
- Researchers had to use the strongest X-ray machine.
- Humans and 60,000 species of jawed vertebrates.
- One of the earliest jawed vertebrates with teeth.
- Excited at seeing how similar its teeth were.
- Our whole understanding of the origin of teeth.
- Grin at the bathroom mirror in the morning.
- Nobody expected to find teeth so deep.

MULTIPLE CHOICE - QUIZ (p.10)

1. b 2. d 3. c 4. a 5. b 6. a 7. c 8. a 9. d 10. c

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)