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Level 6 – 1st September 2025

Ocean acidification a danger to sharks' teeth

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

<https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Contents

The Article	2	Discussion (Student-Created Qs)	15
Warm-Ups	3	Language Work (Cloze)	16
Vocabulary	4	Spelling	17
Before Reading / Listening	5	Put The Text Back Together	18
Gap Fill	6	Put The Words In The Right Order	19
Match The Sentences And Listen	7	Circle The Correct Word	20
Listening Gap Fill	8	Insert The Vowels (a, e, i, o, u)	21
Comprehension Questions	9	Punctuate The Text And Add Capitals	22
Multiple Choice - Quiz	10	Put A Slash (/) Where The Spaces Are	23
Role Play	11	Free Writing	24
After Reading / Listening	12	Academic Writing	25
Student Survey	13	Homework	26
Discussion (20 Questions)	14	Answers	27

Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

The climate crisis may be posing an existential threat to many species of shark. A new study has revealed that the acidification of the world's oceans is causing sharks' teeth to decay. It is well known in the scientific community that increasing ocean acidity is damaging calcified species like corals, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are at similar risk. Lead author of the study, Maximilian Baum, investigated whether "sharks that swim with their mouths open to ventilate their gills and have constant seawater exposure might also be vulnerable". He concluded that "even the teeth of apex predators show visible damage under acidified conditions".

Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an aquarium in Germany. They placed the teeth in two separate water tanks for eight weeks. The salt water in one tank had a pH level of 8.2, which is similar to current ocean averages. The water in the other tank was more acidic, with a pH level of 7.3. Baum found that the teeth in the more acidic water had "visible surface damage". This included cracks and cavities, increased root decay, and structural deterioration. He said ongoing damage could impact how sharks feed in the future. Such damage could potentially trigger "domino effects" across the health of many marine ecosystems.

Sources: <https://www.yahoo.com/news/articles/sharks-may-losing-bite-170000952.html>
<https://edition.cnn.com/2025/08/27/science/ocean-acidification-shark-teeth>
<https://www.theguardian.com/environment/2025/aug/27/ocean-acidification-erodes-sharks-teeth-affecting-feeding>

WARM-UPS

1. SHARKS: Students walk around the class and talk to other students about sharks. 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?

climate / climate crisis / species / shark / ocean / acidification / marine biologist / colleagues / aquarium / water tanks / pH level / teeth / decay / domino effect

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

3. CRISIS: Students A **strongly** believe ocean acidification is an existential crisis; Students B **strongly** believe it isn't. Change partners again and talk about your conversations.

4. EXISTENTIAL CRISES: How much are these things existential crises? Why? What can we do to ameliorate them? Complete this table with your partner(s). Change partners often and share what you wrote.

	A Crisis?	Why?	Amelioration
Ocean acidification			
A.I.			
Overpopulation			
Nuclear wars			
Pandemics			
Societal collapse			

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

6. OCEAN CRISES: Rank these with your partner. Put the best threats to our oceans at the top. Change partners often and share your rankings.

- Acidification
- Plastic pollution
- Coral bleaching
- Overfishing
- Oil spills
- Deep-sea mining
- Warming seas
- Invasive species

VOCABULARY MATCHING

Paragraph 1

- | | |
|----------------------|--|
| 1. existential | a. Scientists who study the ocean and sea animals. |
| 2. acidification | b. Animals that hunt and eat other animals. |
| 3. decay (verb) | c. About life and being alive. |
| 4. marine biologists | d. When something slowly breaks down, rots, or is destroyed. |
| 5. ventilate | e. When something becomes more acidic (like sour or sharp). |
| 6. exposure | f. Bring fresh air into a place. |
| 7. predators | g. Being in contact with something or being open to it. |

Paragraph 2

- | | |
|--------------------|--|
| 8. colleagues | h. A number that shows if something is acidic or alkaline on a scale of 0 to 14. |
| 9. pH level | i. Holes in teeth caused by damage. |
| 10. cavities | j. Something that starts or causes an action. |
| 11. deterioration | k. People you work with. |
| 12. impact (verb) | l. When one event causes another, and then another, and another, and another... |
| 13. trigger (verb) | m. A strong effect or result. |
| 14. domino effect | n. When something gets worse or weaker over time. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

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

1. The article says ocean acidification will kill all species of shark. **T / F**
2. Ocean acidification is causing tooth decay in sharks. **T / F**
3. Sharks swim with their mouths open primarily to eat plankton. **T / F**
4. The teeth of ocean predators are not damaged by acidic sea water. **T / F**
5. Researchers studied the teeth of sharks that lived off the German coast. **T / F**
6. Teeth that were put in more acidic salt water resulted in visible damage. **T / F**
7. Ocean acidification could affect how and what sharks eat in the future. **T / F**
8. The article says ocean acidification could set off a butterfly-wings effect. **T / F**

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

- | | |
|-------------------------|-------------------|
| 1. crisis | a. decline |
| 2. decay | b. set off |
| 3. ventilate | c. open to attack |
| 4. constant | d. noticeable |
| 5. vulnerable | e. emergency |
| 6. current | f. affect |
| 7. visible | g. non-stop |
| 8. deterioration | h. present |
| 9. impact | i. rot |
| 10. trigger | j. air |

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

- | | |
|--|--------------------------|
| 1. The climate crisis may be posing | a. ecosystems |
| 2. the acidification of | b. to decay |
| 3. causing sharks' teeth | c. apex predators |
| 4. swim with their mouths open to | d. the world's oceans |
| 5. the teeth of | e. cavities |
| 6. They placed the teeth in two | f. domino effects |
| 7. The salt water in one tank had a | g. an existential threat |
| 8. This included cracks and | h. pH level of 8.2 |
| 9. Such damage could potentially trigger | i. separate water tanks |
| 10. the health of many marine | j. ventilate their gills |

GAP FILL

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

The climate crisis may be posing an existential (1) _____ to many species of shark. A new study has revealed that the (2) _____ of the world's oceans is causing sharks' teeth to (3) _____. It is well known in the scientific community that increasing ocean acidity is damaging calcified species like (4) _____, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are at similar (5) _____. Lead author of the study, Maximilian Baum, investigated whether "sharks that swim with their (6) _____ open to ventilate their gills and have constant seawater (7) _____ might also be vulnerable". He concluded that "even the teeth of apex (8) _____ show visible damage under acidified conditions".

decay
risk
threat
predators
corals
exposure
acidification
mouths

Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an (9) _____ in Germany. They placed the teeth in two separate water (10) _____ for eight weeks. The salt water in one tank had a pH level of 8.2, which is similar to current ocean (11) _____. The water in the other tank was more acidic, with a pH level of 7.3. Baum found that the teeth in the more (12) _____ water had "visible surface damage". This included cracks and (13) _____, increased root decay, and structural deterioration. He said (14) _____ damage could impact how sharks feed in the future. Such damage could potentially (15) _____ "domino effects" across the health of many (16) _____ ecosystems.

averages
marine
acidic
ongoing
tanks
cavities
aquarium
trigger

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

- 1) The climate crisis may be posing an existential threat to many _____
 - a. specials of shark
 - b. species off shark
 - c. species of shark
 - d. species oft shark
- 2) the acidification of the world's oceans is causing sharks' _____
 - a. teeth too decay
 - b. teeth to decry
 - c. teeth to decay
 - d. teeth to decade
- 3) This led marine biologists to research whether shark teeth are _____
 - a. at similarly risk
 - b. ate similar risk
 - c. at simile risk
 - d. at similar risk
- 4) Baum investigated whether sharks that swim with their mouths open to _____
 - a. ventilate their gills
 - b. ventilate their grills
 - c. ventilate their galls
 - d. ventilate their gails
- 5) He concluded that even the teeth of apex predators _____
 - a. show visibly damage
 - b. show visible damage
 - c. show visible damaged
 - d. shows visible damage
- 6) Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks _____
 - a. at an aquaria
 - b. at an aquarium
 - c. at an aquatic
 - d. at an aquamarine
- 7) a pH level of 8.2, which is similar to _____
 - a. current ocean average
 - b. current ocean avarices
 - c. current ocean averages
 - d. current ocean over ridges
- 8) Baum found that the teeth in the _____
 - a. more acidity water
 - b. more acid water
 - c. more acidic water
 - d. more acid ick water
- 9) This included cracks and cavities, increased root decay, _____
 - a. and structurally deterioration
 - b. and structural deteriorating
 - c. end structural deterioration
 - d. and structural deterioration
- 10) He said ongoing damage could impact _____
 - a. how sharks food
 - b. how shark feed
 - c. how sharks feed
 - d. what sharks feed

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

The climate crisis may (1) _____ existential threat to many species of shark. A new study has revealed that the acidification of the world's oceans is causing sharks' (2) _____. It is well known in the scientific community that increasing ocean acidity is damaging calcified (3) _____, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are (4) _____. Lead author of the study, Maximilian Baum, investigated whether "sharks that swim with their mouths (5) _____ their gills and have constant seawater exposure might also be vulnerable". He concluded that "even the teeth of apex (6) _____ damage under acidified conditions".

Baum and (7) _____ 42 teeth from 10 blacktip reef sharks at an aquarium in Germany. They placed the teeth (8) _____ water tanks for eight weeks. The salt water in one tank had a pH level of 8.2, which is similar to (9) _____. The water in the other tank was more acidic, with a pH level of 7.3. Baum found that the teeth in the (10) _____ had "visible surface damage". This included cracks and cavities, increased root decay, and structural deterioration. He (11) _____ could impact how sharks feed in the future. Such damage could potentially trigger (12) _____ the health of many marine ecosystems.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

1. What kind of threat might ocean acidification be for sharks?
2. What is acidic water doing to the teeth of some species of sharks?
3. What ocean life is acidic water threatening besides urchins and molluscs?
4. Who is Maximilian Baum?
5. Why do some sharks keep their mouths open?
6. Where did the sharks live that were part of this research?
7. What is a pH level of 8.2 similar to?
8. What did researchers find decay in?
9. How could ongoing damage affect sharks?
10. What might experience domino effects because of acidification?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

- 1) What kind of threat might ocean acidification be for sharks?
 - a) a hidden threat
 - b) an existential threat
 - c) a gentle threat
 - d) a secret threat
- 2) What is acidic water doing to the teeth of some species of sharks?
 - a) discolouring them
 - b) strengthening them
 - c) making them fall out
 - d) decaying them
- 3) What ocean life is acidic water threatening besides urchins and molluscs?
 - a) plankton
 - b) tuna
 - c) coral
 - d) seaweed
- 4) Who is Maximilian Baum?
 - a) a marine biologist
 - b) a fish dentist
 - c) a scuba diving instructor
 - d) an aquarium owner
- 5) Why do some sharks keep their mouths open?
 - a) to eat plankton
 - b) to ventilate their gills
 - c) to clean their teeth
 - d) to attract a mate
- 6) Where did the sharks live that were part of this research?
 - a) in a German aquarium
 - b) near Hawaii
 - c) in the Atlantic Ocean
 - d) in Argentina
- 7) What is a pH level of 8.2 similar to?
 - a) citric acid
 - b) sulphuric acid
 - c) current ocean averages
 - d) milk
- 8) What did researchers find decay in?
 - a) roots
 - b) shark brains
 - c) the ocean bed
 - d) seaweed
- 9) How could ongoing damage affect sharks?
 - a) It could end their food supply.
 - b) It could stop them reproducing.
 - c) It could give them a skin rash.
 - d) It could impact how they feed.
- 10) What might experience domino effects because of acidification?
 - a) plankton and tiny marine creatures
 - b) tidal waves
 - c) the health of marine ecosystems
 - d) the floor of the ocean

ROLE PLAY

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Role A – Acidification

You think acidification is the biggest threat to the oceans. Tell the others three reasons why. Tell them why their threats aren't as bad. Also, tell the others which is the least worrying of these (and why): plastic pollution, overfishing or coral bleaching.

Role B – Plastic Pollution

You think plastic pollution is the biggest threat to the oceans. Tell the others three reasons why. Tell them why their threats aren't as bad. Also, tell the others which is the least worrying of these (and why): acidification, overfishing or coral bleaching.

Role C – Overfishing

You think overfishing is the biggest threat to the oceans. Tell the others three reasons why. Tell them why their threats aren't as bad. Also, tell the others which is the least worrying of these (and why): plastic pollution, acidification or coral bleaching.

Role D – Coral Bleaching

You think coral bleaching is the biggest threat to the oceans. Tell the others three reasons why. Tell them why their threats aren't as bad. Also, tell the others which is the least worrying of these (and why): plastic pollution, overfishing or acidification.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

1. WORD SEARCH: Look online / in your dictionary to find collocates, information on, synonyms for... the words 'shark' and 'teeth'.

shark	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">• crisis• causing• community• risk• open• concluded	<ul style="list-style-type: none">• 10• eight• 8.2• 7.3• root• trigger
--	---

SHARKS SURVEY

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Write five GOOD questions about sharks 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.

SHARKS 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 'shark'?
3. What do you think of shark teeth?
4. What do you think of sharks?
5. How worried are you about ocean acidification?
6. What do you do to avoid decay in your teeth?
7. What could happen if ocean acidification increases?
8. How can we reduce ocean acidification?
9. What part do sharks play in ocean ecosystems?
10. What part does coral play in ocean ecosystems?

Ocean acidification a danger to sharks' teeth – 1st September 2025
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SHARKS 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. What do you know about sharks?
15. What do you think of keeping sharks in aquaria?
16. What was the most interesting thing you read in this story?
17. What three adjectives best describe this news story?
18. What might happen to sharks if ocean acidification continues?
19. What could happen in the possible domino effects?
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/2509/250901-shark-teeth.html>

The climate crisis may be (1) _____ an existential threat to many species of shark. A new study has revealed that the acidification of the world's oceans is causing sharks' teeth (2) _____ decay. It is well known in the scientific community that increasing ocean acidity is damaging calcified species (3) _____ corals, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are (4) _____ similar risk. Lead author of the study, Maximilian Baum, investigated whether "sharks that swim with their mouths open to ventilate their (5) _____ and have constant seawater exposure might also be vulnerable". He concluded that "even the teeth of apex predators show (6) _____ damage under acidified conditions".

Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an (7) _____ in Germany. They placed the teeth in two separate water tanks for eight weeks. The salt water in one tank had a pH level of 8.2, which is (8) _____ to current ocean averages. The water in the other tank was more acidic, with a pH level of 7.3. Baum found that the teeth in the (9) _____ acidic water had "visible surface damage". This included cracks and cavities, increased (10) _____ decay, and structural deterioration. He said (11) _____ damage could impact how sharks feed in the future. Such damage could potentially trigger "(12) _____ effects" across the health of many marine ecosystems.

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

- | | | | | |
|-----|----------------|----------------|--------------|-----------------|
| 1. | (a) posed | (b) posing | (c) poses | (d) pose |
| 2. | (a) at | (b) to | (c) for | (d) by |
| 3. | (a) to | (b) as | (c) such | (d) like |
| 4. | (a) of | (b) at | (c) to | (d) on |
| 5. | (a) fills | (b) gills | (c) pills | (d) mills |
| 6. | (a) visibility | (b) visor | (c) visible | (d) vision |
| 7. | (a) Aquarius | (b) aquaria | (c) aquarium | (d) aquamarine |
| 8. | (a) such | (b) same | (c) similar | (d) closed |
| 9. | (a) much | (b) some | (c) many | (d) more |
| 10. | (a) foot | (b) moot | (c) loot | (d) root |
| 11. | (a) ongoing | (b) onboarding | (c) oncoming | (d) onlooking |
| 12. | (a) chess | (b) Jenga | (c) domino | (d) tic-tac-toe |

SPELLING

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Paragraph 1

1. posing an tnixtseelai threat
2. the ccodfaiitnai of the world's oceans
3. causing sharks' teeth to ecdya
4. swim with their mouths open to vletetnia their gills
5. have constant seawater oepsexur
6. the teeth of apex arserpotd

Paragraph 2

7. Baum and his ualleseogc analyzed 42 teeth
8. 10 blacktip reef sharks at an iuramuqa
9. This included cracks and sceaiivt
10. structural rnoeraedtiot
11. potentially trigger idnmoo effects
12. the health of many anrmie ecosystems

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Number these lines in the correct order.

- () "domino effects" across the health of many marine ecosystems.
- () acidic, with a pH level of 7.3. Baum found that the teeth in the more acidic water had "visible surface
- () aquarium in Germany. They placed the teeth in two separate water tanks for eight weeks. The salt
- () Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an
- () community that increasing ocean acidity is damaging calcified species like corals, molluscs, and sea
- () damage". This included cracks and cavities, increased root decay, and structural deterioration. He said ongoing damage could
- () gills and have constant seawater exposure might also be vulnerable". He concluded that "even the teeth
- () impact how sharks feed in the future. Such damage could potentially trigger
- () of apex predators show visible damage under acidified conditions".
- () of the study, Maximilian Baum, investigated whether "sharks that swim with their mouths open to ventilate their
- () revealed that the acidification of the world's oceans is causing sharks' teeth to decay. It is well known in the scientific
- (**1**) The climate crisis may be posing an existential threat to many species of shark. A new study has
- () urchins. This led marine biologists to research whether shark teeth are at similar risk. Lead author
- () water in one tank had a pH level of 8.2, which is similar to current ocean averages. The water in the other tank was more

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

1. It's an many to posing existential species threat .
2. Ocean decay to teeth acidification causing sharks' is .
3. It in scientific is community the well known .
4. Research teeth shark whether are at risk similar .
5. The damage teeth visible predators show apex of .
6. Analyzed 10 reef 42 from blacktip sharks teeth .
7. They tanks the two placed in teeth separate .
8. Water other the more acidic tank in was .
9. Ongoing sharks damage impact could how feed .
10. Such damage potentially domino effects could trigger .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

The climate *critics / crisis* may be posing an existential threat to many species of shark. A new study has *revelled / revealed* that the acidification of the world's oceans is causing sharks' teeth *to / in* decay. It is well known *at / in* the scientific community that increasing ocean acidity is damaging calcified species *like / liked* corals, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are at similar *risk / risky*. Lead author of the study, Maximilian Baum, investigated *whether / whatever* "sharks that swim with their mouths open to ventilate their *fills / gills* and have constant seawater exposure might also be *vulnerable / vulnerability*". He concluded that "even the teeth of apex predators show visible damage under acidified *conditions / condition*".

Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an *aquaria / aquarium* in Germany. They *paced / placed* the teeth in two separate water tanks for eight weeks. The salt water in one tank had a pH level *of / off* 8.2, which is similar to current ocean *average / averages*. The water in the other tank was more acidic, *with / within* a pH level of 7.3. Baum found that the teeth *in / at* the more acidic water had "visible surface damage". This included cracks and cavities, increased *roof / root* decay, and structural deterioration. He said ongoing damage could *compact / impact* how sharks *food / feed* in the future. Such damage could potentially trigger "domino effects" across the *healthy / health* of many marine ecosystems.

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

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

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

Th_ cl_m_t_ cr_s_s m_y b_ p_s_ng _n _x_st_nt__l
thr__t t_ m_ny sp_c__s _f sh_rk. _ n_w st_dy h_s
r_v__l_d th_t th_ _c_d_f_c_t__n _f th_ w_rld's _c__ns
_s c__s_ng sh_rks' t__th t_ d_c_y. _t _s w_ll kn_wn
n th sc__nt_f_c c_mmm_n_ty th_t _ncr__s_ng _c__n
_c_d_ty _s d_m_g_ng c_lc_f__d sp_c__s l_k_ c_r_ls,
m_ll_scs, _nd s__ _rch_ns. Th_s l_d m_r_n_ b__l_g_sts
t_ r_s__rch wh_th_r sh_rk t__th _r_ _t s_m_l_r r_sk.
L__d __th_r _f th_ st_dy, M_x_m_l__n B__m,
_nv_st_g_t_d wh_th_r "sh_rks th_t sw_m w_th th__r
m__ths _p_n t_ v_nt_l_t_ th__r g_lls _nd h_v_
c_nst_nt s__w_t_r _xp_s_r_ m_ght _ls_ b_ v_ln_r_bl_".
H_ c_ncl_d_d th_t "_v_n th_ t__th _f _p_x pr_d_t_rs
sh_w v_s_bl_ d_m_g_ _nd_r _c_d_f__d c_nd_t__ns".

B__m _nd h_s c_ll__g__s _n_lyz_d 42 t__th fr_m 10
bl_ckt_p r__f sh_rks _t _n _q__r__m _n G_rm_ny. Th_y
pl_c_d th_ t__th _n tw_ s_p_r_t_ w_t_r t_nks f_r
__ght w__ks. Th_ s_lt w_t_r _n _n_ t_nk h_d _ pH
l_v_l _f 8.2, wh_ch _s s_m_l_r t_ c_rr_nt _c__n
_v_r_g_s. Th_ w_t_r _n th_ _th_r t_nk w_s m_r_
_c_d_c, w_th _ pH l_v_l _f 7.3. B__m f__nd th_t th_
t__th _n th_ m_r_ _c_d_c w_t_r h_d "v_s_bl_ s_rf_c_
d_m_g_". Th_s _ncl_d_d cr_cks _nd c_v_t__s, _ncr__s_d
r__t d_c_y, _nd str_ct_r_l d_t_r__r_t__n. H_ s__d
_ng__ng d_m_g_ c__ld _mp_ct h_w sh_rks f__d _n th_
f_t_r_. S_ch d_m_g_ c__ld p_t_nt__lly tr_gg_r "d_m_n_
_ff_cts" _cr_ss th_ h__lth _f m_ny m_r_n_ _c_syst_ms.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

the climate crisis may be posing an existential threat to many species of shark a new study has revealed that the acidification of the worlds oceans is causing sharks teeth to decay it is well known in the scientific community that increasing ocean acidity is damaging calcified species like corals molluscs and sea urchins this led marine biologists to research whether shark teeth are at similar risk lead author of the study maximilian baum investigated whether sharks that swim with their mouths open to ventilate their gills and have constant seawater exposure might also be vulnerable he concluded that even the teeth of apex predators show visible damage under acidified conditions

baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an aquarium in germany they placed the teeth in two separate water tanks for eight weeks the salt water in one tank had a ph level of 8.2 which is similar to current ocean averages the water in the other tank was more acidic with a ph level of 7.3 baum found that the teeth in the more acidic water had visible surface damage this included cracks and cavities increased root decay and structural deterioration he said ongoing damage could impact how sharks feed in the future such damage could potentially trigger domino effects across the health of many marine ecosystems

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2509/250901-shark-teeth.html>

The climate crisis may be posing an existential threat to many species of shark. A new study has revealed that the acidification of the world's oceans is causing sharks' teeth to decay. It is well known in the scientific community that increasing ocean acidity is damaging calcified species like corals, molluscs, and sea urchins. This led marine biologists to research whether shark teeth are at similar risk. Lead author of the study, Maximilian Baum, investigated whether "sharks that swim with their mouths open to ventilate their gills and have constant seawater exposure might also be vulnerable". He concluded that "even the teeth of apex predators show visible damage under acidified conditions". Baum and his colleagues analyzed 42 teeth from 10 blacktip reef sharks at an aquarium in Germany. They placed the teeth in two separate water tanks for eight weeks. The salt water in one tank had a pH level of 8.2, which is similar to current ocean averages. The water in the other tank was more acidic, with a pH level of 7.3. Baum found that the teeth in the more acidic water had "visible surface damage". This included cracks and cavities, increased root decay, and structural deterioration. He said ongoing damage could impact how sharks feed in the future. Such damage could potentially trigger "domino effects" across the health of many marine ecosystems.

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

4. TOO LATE: Write a magazine article about it being too late to reverse the damage being done to the environment. Include imaginary interviews with people who agree and disagree 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 sharks. Ask him/her three questions about sharks. Give him/her three of your ideas. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

- 1 F 2 T 3 F 4 F 5 F 6 T 7 T 8 F

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

1. An existential threat
2. Decaying them
3. Coral
4. The lead researcher (and a marine biologist)
5. To ventilate their gills
6. In a German aquarium
7. Current ocean averages
8. Roots
9. It could impact how they feed.
10. The health of marine ecosystems

WORDS IN THE RIGHT ORDER (p.19)

1. It's posing an existential threat to many species.
2. Ocean acidification is causing sharks' teeth to decay.
3. It is well known in the scientific community.
4. Research whether shark teeth are at similar risk.
5. The teeth of apex predators show visible damage.
6. Analyzed 42 teeth from 10 blacktip reef sharks.
7. They placed the teeth in two separate tanks.
8. Water in the other tank was more acidic.
9. Ongoing damage could impact how sharks feed.
10. Such damage could potentially trigger domino effects.

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 ;-)