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Level 6 - 27th March 2025

Researchers find way to target sound to individuals

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https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

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

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THE ARTICLE

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

The way in which we listen to music and hear sounds has changed over the centuries. Today, we have state-of-the-art, noise-cancelling ear buds that provide the highest quality aural experience. In the near future, we will be able to listen to music in public without headphones. New technology is being tested that can aim beams of sound at individuals, without people next to them hearing. This means we could be having private conversations in public without others listening in. A team of researchers at Penn State University in the USA developed an innovation called "audio enclaves". The ultrasound waves used for these enclaves cannot be heard en route to the recipient. In addition, the waves can be bent to get around obstacles.

The researchers spoke to the website "The Conversation" about their work. Lead researcher Jiaxin Zhong said: "We essentially created a virtual headset. Someone within an audible enclave can hear something meant only for them, enabling sound and quiet zones." He elaborated on the potential uses of the technology. Museums could provide headphone-free audio guides to visitors. Passengers in a car could listen to music without distracting the driver. Those requiring confidentiality could set up enclaves to ensure their conversations are not overheard. Individuals could also receive personalized ads as they walk through a shopping mall. In addition, audio enclaves could be set up to eliminate noise pollution in busy workplaces.

Sources: https://theconversation.com/researchers-created-sound-that-can-bend-itself-through-space-

reaching-only-your-ear-in-a-crowd-252266

https://futurism.com/sound-audible-enclaves

https://www.musicradar.com/music-tech/gear-gadgets/rip-headphones-new-tech-can-now-beam-

music-into-your-ears-without-the-need-for-any-hardware

WARM-UPS

- **1. AUDIO:** Students walk around the class and talk to other students about audio. 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?

music / sounds / state-of-the-art / ear buds / the near future / conversations / waves website / quiet zones / technology / museums / personalized ads / noise / pollution

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

- **3. NOISE:** Students A **strongly** believe noise is no problem; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.
- **4. MUSIC:** What do you think of these ways of listening to music? What is the experience like? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Think	The Experience
On a smartphone with ear buds		
On a smartphone (no ear buds)		
Vinyl record		
YouTube		
Live concert		
A video on TV		

- **5. LISTEN:** Spend one minute writing down all of the different words you associate with the word "listen". Share your words with your partner(s) and talk about them. Together, put the words into different categories.
- **6. SOUNDS:** Rank these with your partner. Put the best sounds at the top. Change partners often and share your rankings.
 - Falling rain
 - Trains
 - Birdsong
 - Phones ringing

- Alarm clocks
- A baby's laughter
- A cat meowing
- An amusement arcade

VOCABULARY MATCHING

Paragraph 1

- 1. state-of-the-art a. A line of light or energy.
- 2. aural b. A person who gets something.
- 3. beam c. Very modern and using the newest technology.
- 4. innovation d. About hearing or sound.
- 5. enclave e. A new idea or way of doing something.
- 6. recipient f. A small area inside a bigger area that is different from the rest.
- 7. obstacles g. Things that make it hard to do something.

Paragraph 2

- 8. audible h. Keeping something secret.
- 9. elaborated i. Able to be heard.
- 10. potential j. Making it hard to focus.
- 11. distracting k. Heard something without trying to.
- 12. confidentiality l. Explained with more details.
- 13. overheard m. To remove or get rid of something.
- 14. eliminate n. The ability to do something in the future.

BEFORE READING / LISTENING

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

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

- 1. The article says we have art-of-the-state ear buds today. **T / F**
- 2. We could soon be able to listen to music in public without headphones. T / F
- 3. Beamed sound waves will only be heard by the intended listener. **T/F**
- 4. The new technology can bend sound waves around obstacles. T / F
- 5. The new technology will create "noisy zones". **T / F**
- 6. Visitors to museums could listen to audio guides without headphones. T/F
- 7. The technology is intended to stop drivers from distracting passengers. **T / F**
- 8. The new technology could end noise pollution in the workplace. **T / F**

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

- 1. state-of-the-art
- 2. aim
- 3. innovation
- 4. recipient
- 5. obstacles
- 6. virtual
- 7. elaborated
- 8. distracting
- 9. personalized
- 10. eliminate

- a. receiver
- b. simulated
- c. customized
- d. barriers
- e. point
- f. putting off
- g. get rid of
- h. cutting edge
- i. expanded on
- j. breakthrough

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

- 1. changed over
- 2. state-of-the-art, noise-
- 3. aim beams of sound
- 4. ultrasound
- 5. the waves can be bent to
- 6. He elaborated on the potential
- 7. listen to music without distracting
- 8. ensure their conversations are not
- 9. receive personalized ads as we walk
- 10. eliminate noise pollution

- a. get around obstacles
- b. at individuals
- c. through a shopping mall
- d. the driver
- e. waves
- f. cancelling ear buds
- g. overheard
- h. in busy workplaces
- i. the centuries
- j. uses of the technology

GAP FILL

The way in which we listen to music and hear sounds has	near
changed over the ${}^{\scriptscriptstyle{(1)}}$ Today, we have state-of-	listening
the-art, noise-cancelling ear buds that provide the highest	
quality (2) experience. In the	route
(3) future, we will be able to listen to music in	centuries
public without headphones. New technology is being tested that	obstacles
can aim (4) of sound at individuals, without	
people next to them hearing. This means we could be having	aural
private conversations in public without others	beams
(5) in. A team of researchers at Penn State University in the USA developed an (6) called	innovation
"audio enclaves". The ultrasound waves used for these enclaves	
cannot be heard en (7) to the recipient. In	
addition, the waves can be bent to get around	
(8)	
The researchers spoke to the website "The Conversation" about	distracting
their work. Lead researcher Jiaxin Zhong said: "We	J
(9) created a virtual headset. Someone within	essentially
an (10) enclave can hear something meant only	elaborated
for them, enabling sound and quiet zones." He	eliminate
(11) on the potential uses of the technology.	confidentiality
Museums could provide headphone-free audio	quidos
(12) to visitors. Passengers in a car could listen	guides
to music without (13) the driver. Those requiring	audible
(14) could set up enclaves to ensure their	personalized
conversations are not overheard. Individuals could also receive	
ads as they walk through a shopping mall.	
In addition, audio enclaves could be set up to	
(16) noise pollution in busy workplaces.	

LISTENING — Guess the answers. Listen to check.

1)	The way in which we listen to music and hear sounds has changed
•	a. under the centuries
	b. over the centuries
	c. other the centuries
	d. udder the centuries
2)	noise-cancelling ear buds that provide the highest
	a. quality aerial experience
	b. quality aurora experience
	c. quality aural experience
21	d. quality oral experience New technology is being tested that can aim beams of
٥)	a. sound at individuals
	b. sound that individuals
	c. sound at individual
	d. sound at individualize
4)	we could be having private conversations in public without
	a. others listen in in
	b. other listening in
	c. others listening out
_\	d. others listening in
5)	In addition, the waves can be bent to
	a. get around obstaclesb. get about obstacles
	c. gets around obstacles
	d. get roundly obstacles
6)	Someone within an audible enclave can hear something meant
•	a. once for them
	b. only of them
	c. only from them
	d. only for them
7)	He elaborated on
	a. the potential useless
	b. the potential usesc. the potential use is
	d. the potential you says
8)	Passengers in a car could listen to music without
0)	a. dissecting the driver
	b. distraction the driver
	c. distracting the driver
	d. disgusting the driver
9)	set up enclaves to ensure their conversations
	a. are not overheat
	b. are not overheard
	c. are not over herd
10	d. are not overheated
10)	d. are not overheated) In addition, audio enclaves could be set up to
10)	d. are not overheated) In addition, audio enclaves could be set up toa. eliminate noisy pollution
10)	d. are not overheated) In addition, audio enclaves could be set up to

LISTENING – Listen and fill in the gaps

The way in which we listen to music and hear sounds has changed
(1) Today, we have state-of-the-art, noise-
cancelling ear buds that provide the highest (2)
. In the near future, we will be able to listen to music in public without
headphones. New technology is being tested that can aim
(3) at individuals, without people next to them
hearing. This means we could be having private conversations in public
without (4) A team of researchers at Penn
State University in the USA (5) called "audio
enclaves". The ultrasound waves used for these enclaves cannot be heard en
route to the recipient. In addition, the waves can be
(6) around obstacles.
The researchers spoke to the website "The Conversation" about their work.
Lead researcher Jiaxin Zhong said: "We essentially
(7) headset. Someone within an audible
enclave can hear something meant only for them, enabling
(8) zones." He elaborated on the
(9) the technology. Museums could provide
headphone-free audio guides to visitors. Passengers in a car could listen to
music without (10) Those requiring
confidentiality could set up enclaves to ensure their conversations are not
overheard. Individuals could also (11) as they
walk through a shopping mall. In addition, audio enclaves could be set
noise pollution in busy workplaces.

COMPREHENSION QUESTIONS

1.	What state-of-the-art things do we use today?
2.	When will we be able to listen to music without headphones?
3.	At what institution do the researchers work?
4.	What is the headphone-less innovation called?
5.	What can the sound waves be bent to get around?
6.	Who did the researchers talk to?
7.	Where could people listen to headphone-free audio guides?
8.	Who might receive fewer distractions because of this technology?
9.	What could we receive as they walk through shopping malls?
10.	Where might the technology be set up to eliminate noise pollution?

MULTIPLE CHOICE - QUIZ

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

- 1) What state-of-the-art things do we use today?
- a) cotton buds
- b) ear buds
- c) paint
- d) computer graphics
- 2) When will we be able to listen to music without headphones?
- a) immediately
- b) in the far future
- c) in the distant future
- d) in the near future
- 3) At what institution do the researchers work?
- a) Penn State University
- b) The Audio Lab
- c) The Department of Sound
- d) Ear Buds Inc.
- 4) What is the headphone-less innovation called?
- a) edible enclaves
- b) audible enclaves
- c) audio enclaves
- d) adorable enclaves
- 5) What can the sound waves be bent to get around?
- a) ears
- b) obstacles
- c) noise
- d) walls

- 6) Who did the researchers talk to?
- a) the "Audio Now" magazine
- b) a CEO
- c) The Conversation website
- d) themselves
- 7) Where could people listen to headphone-free audio guides?
- a) under the sea
- b) in airplanes
- c) in jungles and deserts
- d) in museums
- 8) Who might receive fewer distractions because of this technology?
- a) car drivers
- b) teachers
- c) children
- d) soldiers
- 9) What could we receive as we walk through shopping malls?
- a) personalized ads
- b) notifications
- c) directions
- d) stress-reducing music
- 10) Where might the technology be set up to eliminate noise pollution?
- a) train stations
- b) busy workplaces
- c) sports stadia
- d) cities

ROLE PLAY

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

Role A - Falling Rain

You think falling rain is the best sound. Tell the others three reasons why. Tell them what is wrong with their sounds. Also, tell the others which is the least appealing of these (and why): a baby's laughter, a cat meowing or an amusement arcade.

Role B - A Baby's Laughter

You think a baby's laughter is the best sound. Tell the others three reasons why. Tell them what is wrong with their sounds. Also, tell the others which is the least appealing of these (and why): falling rain, a cat meowing or an amusement arcade.

Role C - A Cat Meowing

You think a cat meowing is the best sound. Tell the others three reasons why. Tell them what is wrong with their sounds. Also, tell the others which is the least appealing of these (and why): a baby's laughter, falling rain or an amusement arcade.

Role D - An Amusement Arcade

You think an amusement arcade is the best sound. Tell the others three reasons why. Tell them what is wrong with their sounds. Also, tell the others which is the least appealing of these (and why): a baby's laughter, a cat meowing or falling rain.

AFTER READING / LISTENING

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

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

noise	headphones

- 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:

• way	virtual
• state	• quiet
• tested	• guides
• next	• ensure
• route	• ads
• bent	• busy

AUDIO SURVEY

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

Write five GOOD questions about audio 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.

AUDIO 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 'noise'?
- 3. How do you usually listen to music?
- 4. What are the differences between headphones and ear buds?
- 5. How important is sound quality when you listen to music?
- 6. What do you think of the idea of 'audio enclaves'?
- 7. How good is the audio equipment you use?
- 8. How much does hearing other people's music bother you?
- 9. How important is having a conversation without being overheard?
- 10. How much does noise pollution bother you?

Researchers find way to target sound to individuals – 27th March 2025 Thousands more free lessons at breakingnewsenglish.com

AUDIO 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 'sound'?
- 13. What do you think about what you read?
- 14. Which do you think are better, headphones or ear buds?
- 15. Is it better to listen to music without headphones?
- 16. What do you think of the idea of 'quiet zones'?
- 17. Do you ever use audio guides in museums or sites?
- 18. What do you think of the idea of receiving personalized ads in malls?
- 19. To what degree are you bothered by noise in public places?
- 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)

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_	
h	© breakingnewsenglish.com 2025
	CUSSION (Write your own questions) ENT B's QUESTIONS (Do not show these to student A)
	CUSSION (Write your own questions) ENT B's QUESTIONS (Do not show these to student A)

LANGUAGE - CLOZE

cento provito list that	uries. ide th sten t can a	n which we list Today, we have highest quality on music in publim (4) of s we could be h	ve st y aur lic wi ound	ate-of-the-(2) gal experience. ithout headpho at individuals,	In thones.	, noise-cancell e (3) futu New technolo out people nex	ing earling earling in the second in the sec	ear buds that we will be able being tested them hearing.
an i encla	nnova aves c	n. A team of restation called "autannot be heard to around obstace	ıdio en (6)	enclaves". The	e ult	rasound wave	s us	ed for these
resea withing and Muse car could could adding	archer in an a quiet eums could l d set d also	rchers spoke to Jiaxin Zhong audible enclave zones." He ela could provide histen to music vup enclaves to receive personaudio enclaves os.	said: can h bora eadp witho ensu	"We (7) thear something ted (8) thone-free aud ut (9) the re their conversads (11)	creation cre	ated a virtual ant only for the otential uses of the otential uses of the otential uses of the otential of the	heads m, e of th s. Pa iring a sho	set. Someone nabling sound e technology. ssengers in a confidentiality Individuals pping mall. In
Put	the c	orrect words f	rom t	the table belo	w in	the above ar	ticle	•
1.	(a)	under	(b)	around	(c)	about	(d)	over
2.	(a)	arts	(b)	arty	(c)	artist	(d)	art
3.	(a)	nears	(b)	near	(c)	neared	(d)	nearly
4.	(a)	beamer	(b)	beam	(c)	beams	(d)	beamers
5.	(a)	at	(b)	on	(c)	in	(d)	by
6.	(a)	route	(b)	way	(c)	diversion	(d)	path
7.	(a)	essence	(b)	essentially	(c)	essential	(d)	essentials
8.	(a)	on	(b)	in	(c)	of	(d)	by
9.	(a)	disgusting	(b)	distracting	(c)	digesting	(d)	dystopia
10.	(a)	hears	(b)	hearing	(c)	overheard	(d)	hearsay
11.	(a)	is	(b)	has	(c)	as	(d)	was
12.	(a)	over	(b)	under	(c)	down	(d)	up

SPELLING

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

Paragraph 1

- 1. changed over the <u>utireescn</u>
- 2. the highest quality <u>ulraa</u> experience
- 3. aim beams of sound at dilivsaidnu
- 4. developed an vtnaniooin
- 5. audio secvneal
- 6. bent to get around stblecaos

Paragraph 2

- 7. We essentially created a <u>utvarli</u> headset
- 8. He <u>dloaeebtra</u> on the potential uses
- 9. listen to music without tstdrcngaii the driver
- 10. Those requiring <u>clfnioiettandiy</u>
- 11. receive apelseroznid ads
- 12. set up to <u>mnliiaete</u> noise pollution

PUT THE TEXT BACK TOGETHER

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

Number these lines in the correct order.

()	beams of sound at individuals, without people next to them hearing. This means we could be
()	could be set up to eliminate noise pollution in busy workplaces.
()	essentially created a virtual headset. Someone within an audible enclave can hear something meant only for
()	future, we will be able to listen to music in public without headphones. New technology is being tested that can aim
()	having private conversations in public without others listening in. A team of researchers at Penn State University
()	heard en route to the recipient. In addition, the waves can be bent to get around obstacles.
()	in the USA developed an innovation called "audio enclaves". The ultrasound waves used for these enclaves cannot be
()	overheard. Individuals could also receive personalized ads as they walk through a shopping mall. In addition, audio enclaves
()	provide headphone-free audio guides to visitors. Passengers in a car could listen to music without distracting
()	the art, noise-cancelling ear buds that provide the highest quality aural experience. In the near
()	the driver. Those requiring confidentiality could set up enclaves to ensure their conversations are not
()	The researchers spoke to the website "The Conversation" about their work. Lead researcher Jiaxin Zhong said: "We
(1)	The way in which we listen to music and hear sounds has changed over the centuries. Today, we have state-of-
()	them, enabling sound and quiet zones." He elaborated on the potential uses of the technology. Museums could

PUT THE WORDS IN THE RIGHT ORDER

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

- 1. The in which way we music to listen.
- 2. Buds provide that highest aural the experience quality.
- 3. Listen in music public headphones without to.
- 4. Private in public conversations listening without others in.
- 5. Waves be can bent around to obstacles get.
- 6. Someone within enclave an audible something hear can.
- 7. Elaborated the on potential uses of technology the.
- 8. Listen music to distracting without driver the.
- 9. Those confidentiality requiring could enclaves set up.
- 10. Enclaves set be could eliminate up noise to.

CIRCLE THE CORRECT WORD (20 PAIRS)

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

The way *in / on* which we listen to music and hear sounds has changed over the centuries. Today, we have state-of-the *art / arts*, noise-cancelling ear buds that provide the highest quality *oral / aural* experience. In the near future, we will be able to listen to music *on / in* public without headphones. New technology is *being / been* tested that can aim *beam / beams* of sound at individuals, without people next to them hearing. This means we could be having private conversations in public without others listening *up / in*. A team of researchers at Penn State University in the USA developed an *innovative / innovation* called "audio enclaves". The ultrasound *waves / tides* used for these enclaves cannot be heard en route to the *recipient / incipient*. In addition, the waves can be bent to get around obstacles.

The researchers spoke to the website "The Conversation" about their work. Lead / Steel researcher Jiaxin Zhong said: "We essential / essentially created a virtual headset. Someone within an edible / audible enclave can hear something meant / meaning only for them, enabling sound and quiet zones." He elaborated on the potent / potential uses of the technology. Museums could provide headphone-free audio guides to visitors. Passengers in a car could listen to music without distraction / distracting the driver. Those requiring confidentiality could set up enclaves to ensure / insure their conversations are not overheard. Individuals could also receive personalized ads / aids as they walk through a shopping mall. In addition, audio enclaves could be set up / down to eliminate noise pollution in busily / busy workplaces.

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/2503/250327-audio-enclaves.html

Th_ w_y _n wh_ch w_ l_st_n t_ m_s_c _nd h__r s__nds h_s ch_ng_d _v_r th_ c_nt_r_s. T_d_y, w_ $h_v_st_t_-f_-th_rt, n_s_-c_nc_ll_ng__rb_ds_th_t$ pr_v_d_ th_ h_gh_st q__l_ty __r_l _xp_r__nc_. _n th_ $n_r f_t_r$, $w_w_{ll} b_b_b$ $b_l t_l_st_n t_m_s_c_n$ p_bl_c w_th__t h__dph_n_s. N_w t_chn_l_gy _s b__ng t_st_d th_t c_n __m b__ms _f s__nd _t _nd_v_d__ls, w_th__t p__pl_ n_xt t_ th_m h__r_ng. Th_s m__ns w_ c__ld b_ h_v_ng pr_v_t_ c_nv_rs_t__ns _n p_bl_c $w_th__t \ _th_rs \ l_st_n_ng \ _n. \ _ \ t__m \ _f \ r_s__rch_rs \ _t$ $P_nn \quad St_t_ \quad _n_v_rs_ty \quad _n \quad th_ \quad _S_ \quad d_v_l_p_d \quad _n$ _nn_v_t__n c_ll_d "__d__ _ncl_v_s". Th_ _ltr_s__nd w_v_s _s_d f_r th_s_ _ncl_v_s c_nn_t b_ h__rd _n r_t t th r_c p_n n dd_t n, th w_v s cb_ b_nt t_ g_t _r_nd _bst_cl_s. Th_ r_s__rch_rs sp_k_ t_ th_ w_bs_t_ "Th_ $C_nv_rs_t__n" \quad _b__t \quad th__r \quad w_rk. \quad L__d \quad r_s__rch_r$ J__x_n Zh_ng s__d: "W__ss_nt__lly cr__t_d _ v_rt__l $h__ds_t. \quad S_m__n_ \quad w_th_n \quad _n \quad __d_bl_ \quad _ncl_v_ \quad c_n \quad h__r$ s_m_th_ng m__nt _nly f_r th_m, _n_bl_ng s__nd _nd $q_{-}t z_ns." H_ l_b_r_t_d n th_ p_t_nt_l _s_s _f$ th_ t_chn_l_gy. M_s__ms c__ld pr_v_d_ h__dph_n_-fr__ __d_ g__d_s t_ v_s_t_rs. P_ss_ng_rs _n _ c_r c__ld l_st_n t_ m_s_c w_th__t d_str_ct_ng th_ dr_v_r. Th_s_ r_q__r_ng c_nf_d_nt__l_ty c__ld s_t _p _ncl_v_s t_ $_$ ns $_$ r $_$ th $_$ r c $_$ nv $_$ rs $_$ t $_$ ns $_$ r $_$ n $_$ t $_$ v $_$ rh $_$ rd. th_y w_lk thr__gh _ sh_pp_ng m_ll. _n _dd_t__n, __d__ _ncl_v_s c__ld b_ s_t _p t_ _l_m_n_t_ n__s_ p_ll_t_n _n b_sy w_rkpl_c_s.

PUNCTUATE THE TEXT AND ADD CAPITALS

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

the way in which we listen to music and hear sounds has changed over the

centuries today we have stateofthe art noisecancelling ear buds that provide

the highest quality aural experience in the near future we will be able to

listen to music in public without headphones new technology is being tested

that can aim beams of sound at individuals without people next to them

hearing this means we could be having private conversations in public

without others listening in a team of researchers at penn state university in

the usa developed an innovation called audio enclaves the ultrasound waves

used for these enclaves cannot be heard en route to the recipient in addition

the waves can be bent to get around obstacles

the researchers spoke to the website the conversation about their work lead

researcher jiaxin zhong said we essentially created a virtual headset

someone within an audible enclave can hear something meant only for them

enabling sound and quiet zones he elaborated on the potential uses of the

technology museums could provide headphonefree audio guides to visitors

passengers in a car could listen to music without distracting the driver those

requiring confidentiality could set up enclaves to ensure their conversations

are not overheard individuals could also receive personalized ads as they

walk through a shopping mall in addition audio enclaves could be set up to

eliminate noise pollution in busy workplaces

Level 6 Researchers find way to target sound to individuals – 27th March 2025

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PUT A SLASH (/) WHERE THE SPACES ARE

From https://breakingnewsenglish.com/2503/250327-audio-enclaves.html

Thewayinwhichwelistentomusicandhearsoundshaschangedoverthe centuries. Today, we have state-of-the-art, noise-cancelling ear budst hatprovidethehighestqualityauralexperience. In the near future, we wi Ilbeabletolistentomusicinpublicwithoutheadphones. Newtechnology isbeingtestedthatcanaimbeamsofsoundatindividuals, withoutpeople nexttothemhearing. This means we could be having private conversation nsinpublicwithoutotherslisteningin.AteamofresearchersatPennStat eUniversityintheUSAdevelopedaninnovationcalled"audioenclaves". Theultrasoundwavesusedfortheseenclavescannotbeheardenroutet otherecipient. In addition, the waves can be bent to get around obstacles .Theresearchersspoketothewebsite"TheConversation"abouttheirwo rk.LeadresearcherJiaxinZhongsaid:"Weessentiallycreatedavirtualh eadset.Someonewithinanaudibleenclavecanhearsomethingmeanto nlyforthem, enabling sound and quietzones. "Heelaborated on the pote ntialusesofthetechnology. Museum scould provide head phone-free a udioguidestovisitors.Passengersinacarcouldlistentomusicwithoutdi stractingthedriver. Those requiring confidentiality could set upen clave stoensuretheirconversationsarenotoverheard.Individualscouldalso receivepersonalizedadsastheywalkthroughashoppingmall.Inadditio n, audioenclaves could be set up to eliminate noise pollution in busy work places.

FREE WRITING

Write about audio for 10 minutes. Comment on your partner's paper.								

ACADEMIC WRITING

We must reduce the amount of noise in the world. Discuss.									

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. AUDIO:** Make a poster about audio. Show your work to your classmates in the next lesson. Did you all have similar things?
- **4. NOISE POLLUTION:** Write a magazine article about eradicating noise pollution. 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 audio. Ask him/her three questions about it. Give him/her three of your ideas on audio enclaves. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

2. d 3. 5. 1. С а 4. e 7. g 8. 9. 12. i 1 10. n 11. j h 13. k 14. m

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

1. h	2.	е	3.	j	4.	а	5.	d
6. b	7.	i	8.	f	9.	С	10.	g

COMPREHENSION QUESTIONS (p.9)

WORDS IN THE RIGHT ORDER (p.19)

ral
. u.
ones.
thers
les.
hear
river.
up
ise.
c t l l

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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