



long-term effects

proof

Are noise-cancelling headphones impairing our hearing skills? Some audiologists are beginning to worry

Level 2: Intermediate

- a. Discuss the following questions in pairs.
 - Do you use noise-cancelling headphones? When do you find them most useful? Why?
 - Do you think that reducing background noise could have any negative effects on our hearing or brain? Why or why not?

debates

diagnosed

2 Key words

adaptable

audiologists

a. Find the words from the wordpool in the article. Then use the words to complete the definitions using the correct form.

background noise

blocking out

autism concerned injury source is the set of facts that support the truth of something. are formal discussions where people give different opinions on a particular topic. 3. If something is ______, it can change easily in new conditions or situations. is a medical condition that affects a person's communication, social interaction and behaviour. 5. A(n) _____ is damage to the body, usually caused by an accident. are the consequences or results of something that continue for a long time. 7. A(n) _____ is where something, such as a sound, comes from. 8. means ignoring sounds or noises around you. 9. If someone is ______, they are worried or anxious about something.



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	10.	is an	extra sound that can be heard while listening	g to something			
		For example, the sound of cars in traffic while you are on the phone with someone.					
	11.	When something is	, it means it has been identified	d through a			
		medical exam or test.					
	12.	are p	rofessionals who specialise in hearing proble	ems.			
b.	Complete the sentences with the correct form of the words from the previous activity.						
	1.	After her hearing test, Maria saw a(n) _	for more tre	atment.			
	2.	Tom was about his friend's health after the accident.					
	3.	I had to stay home from school because	se of a sport	_to my leg.			
	4.	It was difficult to concentrate at work be	ecause of the	from the			
		construction site outside the office.					
	5.	Erin uses noise-cancelling headphones	s to the nois	se			
		while studying.					
	6.	This new software is very	and can be used with di	ifferent			
		operating systems.					
	7.	You need to give a(n)	for the statistics you mentio	n, so the edito			
		can check the information.					
	8.	Do you have any	that it was Adam who stole your	phone?			
	9.	Children with	may need specialist teaching to help	them with			
		communication.					
	10.	The class	about the positive and negative impacts	of technology			
		on education was really interesting.					
	11.	Paula's doctor	her with a mild case of flu.				
	12	The	of smoking can include breathing problems a	and cancer			





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Some specialists suspect that constantly filtering out background noise may have unintended consequences

Ian Sample 22 February, 2025

- Noise-cancelling headphones are popular for making travelling to and from work less boring and for blocking out the noise of daily life. However, audiologists are concerned that using them too much might affect people's hearing.
- While the technology has clear benefits, such as helping people listen to music at lower volumes, some experts worry that blocking out background noise may have negative effects.
- 3 Renee Almeida, an audiology expert at Imperial College Healthcare NHS Trust, has noticed an increase in adults coming to her clinic with hearing problems. However, tests often show their hearing is fine. The problem is not with their ears but with their brains. These people might find it hard to locate where a sound is coming from. They may also have difficulty following conversations in noisy places like trains, bars or restaurants.
- 4 This condition, known as auditory processing disorder (APD), is usually diagnosed in children, so the rise in adults with similar problems surprised Almeida. She believes that frequent use of noise-cancelling headphones could be the cause. "The brain is used to dealing with thousands of sounds at once, and it knows what to pay attention to. With noise-cancelling headphones, the brain only gets one sound source, like music or a podcast. There's nothing else to focus on," she explains.
- Too much use of noise-cancelling headphones might affect how children develop the ability to focus on sounds. For adults, it could make their brains less active, like muscles getting weaker from lack of exercise. In both cases, it might be harder to hear speech clearly in noisy environments.
- 6 Although there is no scientific proof that noisecancelling headphones cause APD, Almeida believes more research is needed. "Studies should look into the long-term effects of using these headphones, especially in young people," she says.

- APD affects around three to five per cent of schoolage children. It is linked to low birth weight and ear infections. In older adults, APD can be caused by a head injury, though the cause is often unknown.
- 8 Harvey Dillon, a professor at the University of Manchester, agrees that how we listen affects our ability to focus on speech when there is background noise. He explains that children improve at focusing on sounds from age five to fourteen. However, if children have many ear infections, they may have problems focusing on sounds from one direction.
- 9 Adults seem to be more adaptable. Dillon explains that if someone wears a single earplug for a week, they will slowly relearn how to locate sounds. When the earplug is removed, their ability decreases but recovers quickly. He believes that noise-cancelling headphones could actually help because they allow people to listen at lower volumes without background noise.
- 10 Professor Dani Tomlin, from the University of Melbourne, says that using noise-cancelling headphones for long periods might make listening harder when they are taken off. However, she says they may be good for people with autism. "Instead of recommending people stop using noise-cancelling headphones, we need more research," she says.
- 11 For now, Almeida suggests people practice listening, such as by listening to debates on the radio or writing down the words of songs. "The brain is very adaptable," she says. "Make an effort to listen carefully to what's being said."

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_ev	el Z. intermediate					
	Comprehension check					
	omprenension check					
Arc	e these sentences True (T) or False (F) according to the article?				
1.	Noise-cancelling headphones are completely safe and have no negative effects on hearing.					
2.	Audiologists have noticed that using noise-cancelling headphones might help people listen to music at lower volumes.					
3.	Auditory processing disorder (APD) is only diagnosed in children.					
4.	Professor Harvey Dillon suggests that adults can quickly readjust their hearing					
	after using earplugs or noise-cancelling headphones.					
5.	According to the text, more research is needed to understand the long-term effects of noise-cancelling headphones.					
6.	APD affects more than 10 per cent of s	chool-age children.				
ŀ	Key language					
Ch	oose the correct option (a or b) to co	mplete the sentences.				
1.	People					
	too often.					
	a. might b. should					
2.	<u> </u>	recommend limiting headphone use				
	in children.					
	a. must b. may					
3.	Children	practise listening in different environments.				
	a. need to b. might not					
4.	Researchers	to investigate the long-term effects of				
	noise-cancelling headphones.					
	a. have b. must					





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5.	Parents		talk to their children about responsible headphone use.					
	a. can	b. ought to						
6.	You		damage your ears if you listen to such loud music.					
	a. might	b. should						

5 Discussion

- a. Discuss these questions.
 - Do you think it's a good idea to use noise-cancelling headphones a lot? Why or why not?
 - Have you ever found it difficult to hear someone in a noisy place? What did you do?
 - How has technology changed the way we experience sound in daily life?

6 In your own words

- a. In pairs or small groups, find a short spoken text such as a news report, a conversation or a set of instructions. Then find a pre-recorded sound clip of crowd noise, music or multiple voices speaking at once.
 - Student A: listens to the spoken text only.
 - Student B: listens to the same text with the background sound clip playing at the same time.
 - Student C: (optional) listens to the spoken text using noise-cancelling headphones.
- b. Then discuss the following questions as a class:
 - Who found it easiest to understand the text?
 - How did the background noise affect comprehension?
 - How might this reflect real-life challenges for individuals with APD or autism?
 - What can we do to be more inclusive of people with APD or autism?

