



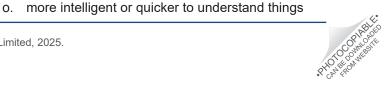
Level 3: Advanced

## 1 Warmer

- a. Discuss the following questions in pairs.
  - · How do you think the food you eat influences your health and well-being?
  - · Can you think of any personal experiences where food has affected your mood or energy levels?
  - In today's world, we often hear about 'superfoods'. What do you think these are? What makes them healthy in your opinion?

## 2 Key words

a.	Match the words below with their definitions. Then find and highlight them in the article to react them in context					
	1.	a pick-me-up		a.	to strengthen or support something, often so it	
	2.	antidepressants			becomes more effective	
		amaoprossamo		b.	to avoid someone or something	
	3.	brighter		C.	a feeling of being sick	
	4.	dodgy leftovers	<del></del>	d.	food from a previous meal that hasn't been eaten and is past its best quality or likely to make you ill	
	5.	expenditure		e.	a solution or approach that is meant to work for everyone, although it often doesn't	
	6.	gut		f.	to stop a feeling of thirst	
	7.	microbiome		g.	the part of the human body where food is processed	
	7.	microbiome		h.	the act of using up resources such as money,	
	8.	nausea			energy or time	
				i.	food or drink that contains yeast or bacteria that is	
	9.	one-size-fits-all	<del></del>		good for your digestive system	
	10	probiotics		j.	essential; extremely important	
	10.	problettos		k.	something that makes you feel better or happier,	
	11.	to quench			especially when you're tired or feeling low	
				I.	a collection of single-cell organisms, such as	
	12.	to reinforce			bacteria, that live in the human body	
	13.	to steer clear of		m.	describes foods that contains chemical additives	
					or ingredients which make them unhealthy	
	14.	ultra-processed		n.	medications that are used to treat depression and	
					other mental health conditions	



15. vital





# Level 3: Advanced

b.

Complete the sentences with words from the previous activity.				
1.	I wouldn't eat those	- they've been sitting in the fridge for over		
	a week!			
2.	A good workout can increase your body's energy	and help you		
	lose weight.			
3.	Eating too much fatty food can upset yourdigestive problems.	and lead to		
4.	The strong smell of fish gave Sasha a wave of	and made her feel		
	slightly ill.			
5.	Healthy eating isn't a(n)	concept; everyone's body is different.		
6.	A glass of cold water will	your thirst on a hot day.		
7.	Positive feedback can	good behaviour in young children.		
8.	I plan to street food	for a while after getting food poisoning		
	in India.			
9.	The government is considering whether to raise taxe	s on snacks		
	such as crisps and high-calorie biscuits.			
10.	After a long day, a hot cup of tea is the perfect	·		
11.	Eating, such as you	ghurt, can be beneficial for your gut health.		
12.	Engineers carried out	work on the motorway after the accident.		
13.	Research suggests that regularly completing word po	uzzles can make you		
	and can help devel	op your brainpower.		
14.	Some people find that	help them manage their symptoms, while		
	others explore therapy.			
15.	Scientists are still researching the role of the	in human health,		
	particularly how it affects digestion and immunity.			

# The Guardian



### The big idea: can what you eat change your mind?

#### Level 3: Advanced

From designer drinks to dodgy leftovers, our brain responds to food in surprising ways

#### Camilla Nord

#### 6 January, 2025

- Probiotic drinks, brain-boosting superfoods, guthealthy snack bars: we're constantly bombarded with information about what and what not to eat. Some foods move between "healthy" and "unhealthy" depending on who you ask. For instance, if a gut-healthy snack bar is ultra-processed, does that cancel out its benefits? It's easy to feel that every food choice has immediate, direct consequences for your health and, increasingly, for your brain. Does broccoli make you brighter? Can a pickle really act as a pick-me-up?
- There is some scientific truth to this. You may have heard that people with poorer mental health, such as those experiencing depression or anxiety, have a different balance of bacteria in their gut. How is this possible? It's because your gut sends signals to your brain via the vagus nerve, your immune system, and other pathways, passing on information about how things are going down there. And so, the theory goes, a less-diverse microbiome might be the cause of a depressed or anxious brain. So, could eating gut-friendly foods improve mental health?
- 3 Maybe. But the bacterial world inside us is far more complex. It is affected by many factors other than the snack you just ate, including your genes, your history of taking certain medications, and even your social interactions every day, throughout your life. A person with poor mental health might have a less diverse microbiome because they've eaten a limited diet, had fewer social interactions, or taken antidepressants. While probiotics can improve microbiome health, whether this significantly impacts mental health for most people remains unclear.
- 4 And, in any case, the brain is far from being merely a passive receiver. Signals from the gut are filtered and changed by the brain itself. What matters most to the brain is survival. Signals from the body are incorporated in your brain's broader representation of the world the world around you, and the world inside you so that it can monitor and adjust your behaviour in order to help you survive. In the case of food, two types of information are absolutely vital for survival: does something you eat contain energy your body can use? And does it contain something that might make you ill?

- When you take a sip of a sugary drink, your brain processes the sensory information the taste, bubbles on the tongue, and so on. But it doesn't stop there. Once you've swallowed, your digestive system tells the deep reward structures of the brain, via the vagus nerve, that what you've consumed has calories. You also register that it's hydrating. These signals reinforce your behaviour: they tell your brain to pursue that particular drink again in future.
- This is an ancient form of reward-based learning. It keeps us alive. It helps us find foods that satisfy us and drinks that quench our thirst. It also happens unconsciously: your brain is constantly influencing your food and drink choices based on its experience with rewards in the past. Not only that, but different brains can be more or less sensitive to food-related signals from the body. This means people adjust their energy intake (via eating) or expenditure (via exercise) to different degrees.
- 7 So much for the things you like, what about the things you hate? As with rewards, we differ in our sensitivity to signals from the body, such as nausea. Just as our brain learns from internal signals what it needs to keep us alive (things that contain calories and fat, for example) it also learns what to avoid in order to keep safe from illness.
- That's why, once something has made you sick, your brain learns strongly and rapidly to steer clear of it. It seems likely that once we have a disgusting experience with something, it is much more difficult to "un-learn" than other sorts of experiences. In other words, disgust may be more powerful than other emotions. However, disgust can bring about phobias, food avoidance, and some types of post-traumatic stress. Sometimes, your brain needs signals from the gut in order to ensure you stay healthy, but sometimes it might be useful if their effects weren't so obviously felt.
- 9 So can what you eat change your mind? To some extent, yes. The most extraordinary property of the gut/brain is that it adjusts to signals from inside you. Dodgy leftovers, or a specially formulated drink that affects your microbiome one way or another, might indeed have an effect. Precisely how food influences your mood and wellbeing, however, depends critically on your particular brain: there's no one-size-fits-all answer, so don't bank on any strong claims. What we know for sure is that, whatever's on the menu, your brain really is listening to its gut.

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The big idea: can wha	t you eat change	your mind?
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Leve	3:	Adva	nced
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Are	these sentences True (T) or False (F) according to the article? Correct any that are	false.
1.	Probiotics have a clear and guaranteed effect on mental health, according to the text.	
2.	The vagus nerve helps the gut communicate with the brain.	
3.	Genes and social interactions have been shown to have little effect on one's microbiome.	
4.	The brain receives different signals from the gut but isn't able to distinguish between them.	
5.	Sugary drinks send signals to the brain about their calorific content.	
6.	Reward-based learning is a modern adaptation of human behaviour.	
7.	Different individuals have different sensitivities to food-related signals.	
8.	Disgust is considered a powerful emotion that can influence food avoidance.	
9.	The brain only learns from positive food experiences and not from the negative ones.	
10.	The brain can adapt based on signals from the gut to ensure survival.	

# 4 Key language

a. Find the verbs in the text and match them with a preposition from the box.

	on	on	with	about	of	out
1.	bank		_	4. cancel		
2.	bombard		_	5. take a sip		
3.	bring		_	6. pass		





# Level 3: Advanced

b.

	ad the definitions and then complete the examples with the correct form rbs from the previous activity.	of the phrasal
1.	to make the effect of something less significant or important	
	The benefits of exercising regularly can be	by a poor diet high in
	sugar and processed foods.	
2.	to rely on or depend on something happening	
	You can't the weather being good this wee	kend – the forecast is
	for some sunny intervals.	
3.	to send information to something or someone else	
	I'll the updated schedule to the rest of the t	eam this week.
4.	to cause something to happen	
	It is hoped that the new government policies will	positive
	changes in the healthcare system.	
5.	to be attacked by a large amount of something, such as information or quest	ions
	Greg felt questions about his previous expe	erience during the
	job interview.	
6.	to drink in small amounts or to drink little by little	
	He paused and the cold water from the bo	ttle before he
	continued talking.	





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## 5 Discussion

- a. Discuss these questions.
  - What role does the microbiome play in mental health, and how does it influence the brain's behaviour towards food?
  - Do you think focusing on gut health is the most effective way to improve mental health, or are there other factors that play a bigger role?
  - The text mentions that our brains learn to avoid foods that have made us feel ill. Can you think
    of any examples from your own experience where you've avoided a certain food after a bad
    experience?

## 6 In your own words

- a. Write an advertisement (about 150-250 words) to explain, in an interesting way, why people should pay attention to their gut health and how it relates to physical and mental well-being. Include:
  - information about how the gut communicates with the brain (e.g. via the vagus nerve and the immune system).
  - tips on foods that can support both gut health and physical and mental well-being.
- b. Share your advertisements with your class.



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