



Biohacking



Instant Lessons

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Lesson Plan: Biohacking EXAMPLE

Lessons: Introduction, reading, listening, speaking (seminar) and writing.

Time: 1-1.5 hours. Level: *****[B1/B2/C1].

Lesson Aim:

To focus on one key topic and develop a range of key academic skills based on this topic.

Introduction [5 minutes]

- Introduce the topic 'Biohacking'.
- Give out the 'Biohacking Reading Text Worksheet' and discuss the lead in questions.

Reading: Test-Type Questions [20-30 minutes]

- Students read the text. Check words & meanings with a dictionary.
- Answer the questions.
- Feedback: distribute or project ANSWERS

Listening: Lecture & Test Questions [30-40 minutes]

Video (3:40): Available in paid download MP3: Available in paid download

- Give out the 'Listening: Mini Lecture Worksheet'.
- Students check key vocabulary.

Option 1

- Students look at the questions.
- Students listen & answer the questions.
- Give 2 minutes to tidy answers.
- Students listen again. Check answers & answer missed questions.
- Feedback: distribute or project ANSWERS.

Option 2

- Students listen & take notes (Use paper or the PPT slides in the Appendix).
- Students listen again & add to their notes.
- Students use their notes to answer the questions.
- Feedback: distribute or project ANSWERS.

Speaking: Seminar [10-15 minutes]

- Give out the 'Speaking Worksheet'.
- Students revise content from the reading & lecture texts.
- Students hold a seminar discussion using the question prompts.
 How to run a seminar: https://www.academic-englishuk.com/seminars

Writing: Summary [20 minutes + tutor feedback]

- This can be a homework task if limited time.
- Students use the two texts (reading and listening) to write a 150-word paragraph on 'the
- Tutor to error correct & return https://www.academic-englishuk.com/error-correction





Biohacking Reading Text Worksheet

Task 1: Lead In

- 1. Have you ever heard of Biohacking?
- 2. What do you think it means?
- 3. Look at the title of the reading text what do you think it is about?

Task 2: Reading Text:	The Biohacking Move	ment	
	By A. Watson (2021)		
In our drive to look younger a Biohacking,	and live longer, a new lifesty	yle has emerged in Samuel (2019)	the last few years.
manipulate your brain and boo	ly in order to optimize perfor	mance, outside the	realm of traditional
000000000000000000000000000000000000000	was first coined by	0000000000000000	000000000000000000000000000000000000000
the biohacker" in 1988, it was r			sed in Silicon Valley,
biohackers	t	heir bodies and	000000000000000000000000000000000000000
peak performance (ibid).			
One pioneer of this movement	is occordence	000000000000000000000000000000000000000	facility which uses
	ment to supercharge a person'	's body. This is achiev	
of various methods, for exampl		000000000000000000000000000000000000000	cold temperature;
wa	eves are used to warm the bod	ly; ozone saunas who	ere steam is used to
infuse oxygen into the skin and	PEMF (pulsed electromagnet	ic field)	to
restore	trea	atments reduce infla	ammation, improve
cognition, remove toxins and e	nhance longevity.		
Taking biohacking to another le	vel,	XXXXXXXXXXXXXXXXXXXXXXX	into their bodies
(Samuel, 2019) to become cyb	ernetic organisms. One exam	ple is a near-field co	mmunication (NFC)
chip that		Other extreme	examples include
Nootropics (smart drugs) that a	are used to boost brain perfor	mance,	000000000000000000000000000000000000000
joint pain	a	ging. These may see	em rather excessive
and in fact dangerous; however	r, the most controversial bioha	ack	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Although Crispr	300000000000000000000000000000000000000	to eradicate	000000000000000000000000000000000000000
are buying do-it-yourself kits	to practise gene editing in	their homes (Pearlr	man. 2017). This is
completely legal as long as	200000000000000000000000000000000000000	is r	ot clear how many
users are self-administering Cris	•		
200000000000000000000000000000000000000		and why people wo	uld wish to explore
unconventional ideas in a bid to		0000000000000000	000000000000000000000000000000000000000
popularity around the world,	and with its 7 th annual bioha	acking conference c	oming up, this is a
AAAAAAAAAAAAAAAAAA			
References			
Johnson, C. 2019. Travel on trial.	000000000000000000000000000000000000000	-	nline]
· · · · · · · · · · · · · · · · · · ·	egraph.co.uk/travel/destinations,	<u>/north-america/united</u>	-states/california/los-
angeles/ [Accessed 24 February 20	<u>)21.</u>		
200000000000000000000000000000000000000	_	SPR on their DNA and	•
[online] Available at https://www.	newscientist.com/article/biohack	<u>kers</u> [Accessed 24 Febr	uary 2021.
Samuel, S. 2019.	500000000000000000000000000000000000000	– and human natu	re. [online] Available



at https://www.vox.com/future-perfect/2019/6/25/18682583/biohacking/ [Accessed 24 February 2021.



Reading Text Questions

Task 3: Headings

Choose a subheading for each paragraph.

1	A	Extreme cases
2	В	
3	С	Futuristic amenities
4	D	000000000000000000000000000000000000000
		/ 4

Task 4: True, False or Not Given

Decide if these statements are true (T), false (F) or not given (NG). Highlight the answer in the text.

		T/F/NG
1	Biohackers use traditional medicine to improve their performance.	
2		
3	The world's first biohacking centre is in the US.	
4	warm temperatures.	
5	Some people want to become cyborgs.	
6		
7	Some people are practising gene editing on themselves.	
8	000000000000000000000000000000000000000	

/ 8

Task 5: Vocabulary

Key language – search for a word in the text that means:

Paragraph		Word
1	To change something.	
1	000000000000000000000000000000000000000	
2	To return something to a good condition.	
2	000000000000000000000000000000000000000	
3	More than is necessary or normal.	
3	000000000000000000000000000000000000000	
4	To get rid of something bad.	
4	000000000000000000000000000000000000000	

	/	ς
	/	c

Total Score ____/20





Listening: Mini Lecture Worksheet

Task 1: Key Vocabulary

Chec	k these words and phrases before	listening:		
		versal discipline.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	prosthetic
100	mimic. alleviate.		mechanical device.	000000000
con	straints. ethical. intellectud	al gulf. join	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	CRISPR. alter.
Task	2: Lecture Listening		Cybernet	ic Organisms
Lister	n to the lecture	and		
answ	er the following questions:			
2.1	Gap Fill			
	are cybernetic organisms? Compl	ete the gaps. The first		
letter	is already given.		Listen	ing Lecture
c	are	000000000000000000000000000000000000000	and m	
bod	y parts to either improve body $\mathbf{m}_{_}$		or to enhance or	ne's capabilities.
				/3
2.2	Open Questions	AAAAAAAAAAAAAAA	2	
i.	What two		?	
ii.	Who benefits from cochlear impl	ants?		
iii.	.00000000000000000000000000000000000000	00000000000		
iv.	Who benefits from brain pacema	ikers?		
٧.	How	each ye	ear?	
				/6
	Multiple Choice	tion		
i.	se ONE answer only for each ques Exoskeletons provide the user	A.	^^^	Y////////
"	with	B. Artificial strengt	h and endurance	
		C.	Trana engarance.	XXXXXXXXXX
ii.	be	A. 100 times smart	er than us.	
		В.	>>>>>>>	2000000000
		C. 1,000,000 times	smarter than us.	
iii.	Some in the field think that	100000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000
		B. Humans will nee	ed protection from cy	borgs.
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	>>>>>>>>>	2000000
iv.	Which of these ethical	A. Intellectual gulf.		
	000000000000000000000000000000000000000	000000000000000000000000000000000000000	>>>>>>>>	2000000
	serious?	C. The interference	with the blue print of	of life.
		I	· ·	/ 4
2.4	Gap Fill			·
What	does the lecturer	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	? Complete the gaps	.
This	may seem like science	but it is, ac	ctually, science	•
				/ 2
Tota	l Score /15			





Speaking Worksheet

Discussion

Use the two texts (reading and listening) to discuss these questions.

key sources:					
Reading: Watson (2021)		Lecture	: Watts (202	1)	
Johnson (2019) /					
Seminar Questions	Seminar Questions				
1) Define the terms biohack	and cybernetic	Olgaliisi ———			
2) Discuss	200200000000000000000000000000000000000	XXXXXXX	the two text	ts.	
3) Discuss	000000000000000000000000000000000000000	0000000	organisms.		
4) Would you ever use you go?	100000000000000000000000000000000000000	XXXXXXX	X00000000	body? How far would	
5) Summarise your discussi (Each person summarises one		nt discuss	sed).		
Summary Use the two texts (reading an	Writin d listening) to write a	_		sons why some people	
Write 150 words:					





Reading ANSWERS

Task 3: Headings

Choose a subheading for each paragraph.

1	D	Α	Extreme cases
2	С	В	Contentious risks

ALL ANSWERS ARE INCLUDED IN PAID VERSION...

Listening ANSWERS

2.1 Gap Fill

i) What are cybernetic organisms? Complete the gaps. The first letter is already given.

Cyborgs are a combination of organic and *mechanical* body parts to either improve body *malfunctions* or to enhance one's capabilities.

ALL ANSWERS ARE INCLUDED IN PAID VERSION...

Cybernetic Organisms lecture transcript

(C. Watts 2021)

Hello and welcome to this mini lecture on cybernetic organisms or commonly known as cyborgs. According to the Medical Futurist 2019, cyborgs are a combination of organic and mechanical body parts to either improve body malfunctions or to enhance one's capabilities. The term 'Cyborg' was coined in 1960 by Manfred Clynes, it was used to describe the technological enhancement of the human body for space travel through the use of DRUGS and SURGERY....

THE FULL TRANSCRIPT IS INCLUDED IN THE PAID VERSION...





Appendix: PowerPoint Slides

Listen to the lecture and take notes using the PPT slides

