



Biohacking



Mini Lecture

EXAMPLE

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Lesson Plan: Biohacking

Lesson: Lecture Listening.

Time: 1 hour.

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'.
- Have you ever heard of Biohacking?
- What are cybernetic organisms?

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

Video (03:40): 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**.

Post lecture extra ideas

- Write a 100-word summary of the lecture.
- Apply critical thinking strategies to the lecture. Use this critical thinking question document: <https://www.academic-englishuk.com/wp-content/uploads/2020/03/Critical-Questions-a-linear-model-AEUK.pdf> (writing, presentation or seminar).
- Research other types of cybernetic organisms (presentation or seminar).
- Research the positives and negatives of biohacking (presentation or seminar).

Listening: Mini Lecture Worksheet

Task 1: Key Vocabulary

Check these words and phrases before listening:

cybernetic		universal discipline.			prosthetic
	mimic.	alleviate.		enhanced.	mechanical device.
constraints.	ethical.		intellectual gulf.	join	
					CRISPR.
					alter.

Task 2: Lecture Listening

Listen to the lecture _____ and answer the following questions:



2.1 Gap Fill

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

C _____ are _____ and m _____
body parts to either improve body m _____ or to enhance one's capabilities.

____ / 3

2.2 Open Questions

i.	What two _____ ?	
ii.	Who benefits from cochlear implants?	
iii.	_____	
iv.	Who benefits from brain pacemakers?	
v.	How _____ each year?	

____ / 6

2.3 Multiple Choice

Choose ONE answer only for each question.

i.	Exoskeletons provide the user with..	A. _____
		B. Artificial strength and endurance.
		C. _____
ii.	_____ be..	A. 100 times smarter than us.
		B. _____
		C. 1,000,000 times smarter than us.
iii.	Some in the field think that...	_____
		B. Humans will need protection from cyborgs.

iv.	Which of these ethical _____ serious?	A. Intellectual gulf.

		C. The interference with the blue print of life.

____ / 4

2.4 Gap Fill

What does the lecturer _____ ? Complete the gaps.


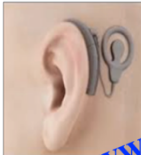








This may seem like science _____ but it is, actually, science _____.

____ / 2

Total Score ____ / 15

Appendix: PowerPoint Slides

Listen to the lecture and take notes using the PPT slides

<p>Cyborgs</p> <p>Definition (Medical Futurist, 2019)</p>  <p>Manfred Clynes</p> <p>www.academic-englishuk.com</p> <p>AE Academic English UK</p>	
<p>Cyborg technology</p>  <p>cochlear implants</p>  <p>artificial retinas</p>  <p>prosthetic limbs</p>  <p>brain pacemakers</p> <p>www.academic-englishuk.com</p> <p>AE Academic English UK</p>	
<p>Rapid Advancement</p>  <p>exoskeletons</p>  <p>translation earbuds</p>  <p>brain-computer interfaces</p>  <p>CYBORG FOUNDATION</p> <p>www.academic-englishuk.com</p> <p>AE Academic English UK</p>	<p>www.academic-englishuk.com</p>
<p>Ethical questions</p> <ol style="list-style-type: none"> 1. Intellectual gulf 2. Pressure to join or fall behind 3. Interference with the blue print of life  <p>CRISPR</p> <p>www.academic-englishuk.com</p> <p>AE Academic English UK</p>	

Listening ANSWERS

2.1 Gap Fill

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...