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Ready-to-Use English Lessons by Sean Banville

Level 3 – 8th October, 2019

Paralyzed man walks using robotic suit

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https://breakingnewsenglish.com/1910/191008-robotic-suit.html

Contents

Please try Levels 0, 1 and 2 (they are easier).

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THE ARTICLE

A man who is paralyzed from below his shoulders has been able to walk using a robotic suit. The 28-year-old man could not move his arms, hips and legs after an accident. Doctors fitted him with a special robotic exoskeleton - this is a machine that covered his arms, legs and body. The machine was attached to the ceiling so the man could keep his balance and not fall over. He controlled the machine using high-tech sensors that were implanted near his brain. The man used his thoughts to tell the sensors to move the machine. His brain sent messages to the machine and it moved his arms and legs. He was able to walk a few steps using the machine even though he was paralyzed.

Doctors say they are in the early stages of developing this technology. They believe robotic exoskeletons will help disabled people to live better lives in the future. Technology will be able to pick up signals from the brain to control wearable robotic technology. The next stage is to remove the ceiling harness. A neurosurgeon who co-led the exoskeleton trial commented on the exoskeleton suit. He said it was the first wireless, brain-controlled system to be designed that can move all four limbs. The man was very happy with the test. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a point where I can walk. I walk when I want and I stop when I want."

WARM-UPS

1. ROBOT: Students walk around the class and talk to other students about robot. 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?

shoulders / robots / arms / machine / ceiling / balance / sensors / thoughts / early / technology / future / signals / brain / trial / wireless / limbs / tomorrow / point

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

3. DANGEROUS: Students A **strongly** believe robots are dangerous; Students B **strongly** believe robots are dangerous. Change partners again and talk about your conversations.

4. TECHNOLOGY: Is it good or bad for us? Complete this table with your partner(s). Change partners often and share what you wrote.

	Good Things	Bad Things
Exoskeletons		
The internet		
Cars		
Genetic engineering		
Nuclear energy		
Television		

5. ARMS: Spend one minute writing down all of the different words you associate with the word "arms". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

6. ROBOTS: Rank these with your partner. Put the best uses for robots at the top. Change partners often and share your rankings.

- As teachers
- As police officers
- Driverless cars
- As doctors

- As pets
- As home helps
- As soldiers
- As comedians

VOCABULARY MATCHING

Paragraph 1

1. shoulders

    a. Acts or movements of putting one leg in front of the other in walking or running.

2. hips

    b. A strong frame that covers the body of some invertebrate animals, that gives support and protection.

3. exoskeleton

    c. The top part of a room.

4. attached

    d. The places where the top of our arms meet our body.

5. ceiling

    e. A device which detects or measures something and records it.

6. sensor

    f. The large bones where the top of our legs meet our body.

7. steps

    g. Joined, fastened, or connected to something.

Paragraph 2

8. stage

    h. A set of straps for fixing something to a person's body, such as a parachute, or for restraining a young child.

9. developing

    i. A test of the performance, qualities, or suitability of someone or something.

10. signal

    j. A particular moment in time or stage in a process.

11. harness

    k. Growing or causing to grow and become more mature and advanced.

12. trial

    l. An arm or leg of a person or four-legged animal.

13. limb

    m. An electrical impulse or radio wave transmitted or received.

14. point

    n. A point, period, or step in a process or development.

BEFORE READING / LISTENING

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

a.   A man is no longer paralyzed after wearing a robotic suit.   **T / F**

b.   The man was paralyzed from the waist down.   **T / F**

c.   The robotic suit was fixed to the ceiling to help the man's balance.   **T / F**

d.   The man was able to walk a few hundred meters using the suit.   **T / F**

e.   Doctors are in the advanced stages of developing this technology.   **T / F**

f.   Doctors said the next step was to remove the ceiling harness.   **T / F**

g.   This is the first brain-controlled suit to move arms and legs.   **T / F**

h.   The man said he was happy that he could take the suit home.   **T / F**

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

1.	**paralyzed**	a.	arms and legs
2.	**fitted**	b.	stability
3.	**attached**	c.	initial
4.	**balance**	d.	assist
5.	**a few**	e.	equipped
6.	**early**	f.	phase
7.	**help**	g.	disabled
8.	**stage**	h.	wish
9.	**limbs**	i.	a small number of
10.	**want**	j.	fixed

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

1.	A man who is paralyzed from	a.	limbs
2.	the man could keep his balance	b.	a few steps
3.	He controlled the machine using high-	c.	this technology
4.	His brain sent messages	d.	and not fall over
5.	He was able to walk	e.	controlled system
6.	in the early stages of developing	f.	to the machine
7.	wearable	g.	where I can walk
8.	the first wireless, brain-	h.	below his shoulders
9.	move all four	i.	robotic technology
10.	I've got to a point	j.	tech sensors

GAP FILL

A man who is paralyzed from (1) _____ his shoulders has been able to walk using a robotic suit. The 28-year-old man could not move his arms, hips and legs after an (2) _____. Doctors fitted him with a special robotic exoskeleton - this is a machine that (3) _____his arms, legs and body. The machine was attached to the (4) _____so the man could keep his balance and not fall over. He controlled the machine using high-tech (5) _____that were implanted near his brain. The man used his (6) _____to tell the sensors to move the machine. His brain sent messages to the machine and it moved his arms and legs. He was able to walk a few (7) _____using the machine even (8) _____he was paralyzed.

covered

though

sensors

steps

below

accident

thoughts

ceiling

Doctors say they are in the early (9) _____of developing this technology. They believe robotic exoskeletons will help disabled people to live better lives in the (10) _____. Technology will be able to pick up signals from the brain to (11) _____wearable robotic technology. The next stage is to remove the ceiling harness. A neurosurgeon who co-led the exoskeleton (12) _____commented on the exoskeleton suit. He said it was the first wireless, brain-controlled system to be designed that can move all four (13) _____. The man was very happy with the (14) _____. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a (15) _____where I can walk. I walk when I want and I (16) _____when I want."

limbs

point

stages

stop

control

future

test

trial

LISTENING – Guess the answers. Listen to check.

1) A man who is paralyzed from below his shoulders has been _____
   a. ability to walk
   b. a ball to walk
   c. a bill to walk
   d. able to walk

2) could not move his arms, hips and legs after _____
   a. an accident
   b. as accident
   c. at accident
   d. ad accident

3) The machine was attached to the ceiling so the man could _____
   a. keep his balanced
   b. keep his balances
   c. keep his balance
   d. keep his balancing

4) He controlled the machine using high-tech sensors that were _____ his brain
   a. implanted near
   b. in plant it near
   c. implant it near
   d. in planted near

5) He was able to walk a few steps using _____
   a. the machined
   b. the mashing
   c. them a sheen
   d. the machine

6) They believe robotic exoskeletons will help _____
   a. disabled peoples
   b. disabled people
   c. this abled people
   d. these abled people

7) Technology will be able to pick up signals from the brain to control wearable _____
   a. robe optic technology
   b. robo-tick technology
   c. robotize technology
   d. robotic technology

8) The next stage is to remove the _____
   a. see thing harness
   b. ceiling harness
   c. seal in harness
   d. seeing harness

9) brain-controlled system to be designed that can move _____
   a. all fours limbs
   b. all four limb
   c. all fours limb
   d. all four limbs

10) I can't go home tomorrow in my exoskeleton, but I've got _____
   a. to a point
   b. tour point
   c. two a point
   d. two points

LISTENING – Listen and fill in the gaps

A man who is (1) _____ his shoulders has been able to walk using a robotic suit. The 28-year-old man could not move his (2) _____ legs after an accident. Doctors fitted him with a special robotic exoskeleton - this is a machine (3) _____ arms, legs and body. The machine was attached to the ceiling so the man could (4) _____ and not fall over. He controlled the machine using high-tech sensors that were implanted near his brain. The man used his thoughts to (5) _____ to move the machine. His brain sent messages to the machine and it moved his arms and legs. He was able to walk a few steps using the machine (6) _____ was paralyzed.

Doctors say they are in (7) _____ of developing this technology. They believe robotic exoskeletons will help disabled people to live better lives (8) _____. Technology will be able to pick up signals from the brain to control wearable robotic technology. The next stage is (9) _____ ceiling harness. A neurosurgeon who co-led the exoskeleton (10) _____ the exoskeleton suit. He said it was the first wireless, brain-controlled system to be designed that (11) _____ four limbs. The man was very happy with the test. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a point where I can walk. I walk (12) _____ and I stop when I want."

COMPREHENSION QUESTIONS

1. Below which part of the man's body is he paralyzed?

2. How old is the man?

3. What was the exoskeleton harness attached to?

4. What was implanted near the man's brain?

5. How far did the article say the man walked in the exoskeleton?

6. How far in the exoskeleton development process are the doctors?

7. What did the article say brain signals will be able to control?

8. How did the man feel about the exoskeleton test?

9. What can the man not take home?

10. When did the man say he stopped walking?

MULTIPLE CHOICE - QUIZ

1) Below which part of the man's body is he paralyzed?
a) the shoulders
b) the chest
c) the neck
d) the waist

2) How old is the man?
a) 26
b) 25
c) 28
d) 27

3) What was the exoskeleton harness attached to?
a) a frame
b) the ceiling
c) the floor
d) the walls

4) What was implanted near the man's brain?
a) a microchip
b) a speaker
c) a balancing machine
d) sensors

5) How far did the article say the man walked in the exoskeleton?
a) a few steps
b) 100 meters
c) not too far
d) 2kms

6) How far in the exoskeleton development process are the doctors?
a) about six months in
b) in the middle stages
c) in the latter stages
d) in the early stages

7) What did the article say brain signals will be able to control?
a) everything
b) wearable robotic technology
c) robots
d) all computers

8) How did the man feel about the exoskeleton test?
a) fantastic
b) worried
c) shocked
d) happy

9) What can the man not take home?
a) a harness
b) his medical records
c) the exoskeleton
d) sensors

10) When did the man say he stopped walking?
a) when he was tired
b) when he wanted to
c) when doctors told him to
d) before lunch

ROLE PLAY

Role A – As Teachers

You think robot teachers would help us most. Tell the others three reasons why. Tell them what is wrong with their robots. Also, tell the others which are the least useful of these (and why): robot chefs, robot comedians or robot soldiers.

Role B – As Chefs

You think robot chefs would help us most. Tell the others three reasons why. Tell them what is wrong with their robots. Also, tell the others which are the least useful of these (and why): robot teachers, robot comedians or robot soldiers.

Role C – As Comedians

You think robot comedians would help us most. Tell the others three reasons why. Tell them what is wrong with their robots. Also, tell the others which are the least useful of these (and why): robot chefs, robot teachers or robot soldiers.

Role D – As Soldiers

You think robot soldiers would help us most. Tell the others three reasons why. Tell them what is wrong with their robots. Also, tell the others which are the least useful of these (and why): robot chefs, robot comedians or robot teachers.

AFTER READING / LISTENING

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms … for the words 'robot' and 'suit'.

robot	suit

- 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:

• shoulders	• early
• hips	• live
• fitted	• next
• balance	• trial
• brain	• happy
• few	• point

ROBOTS SURVEY

From   https://breakingnewsenglish.com/1910/191008-robotic-suit.html

Write five GOOD questions about robots 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.

ROBOTS 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 'robot'?

3. What do you think of robots?

4. Why might people think robots are dangerous?

5. How will robots help doctors?

6. Do you think we will become cyborgs one day?

7. How useful are robots for people who are paralyzed?

8. What other things could we use brain sensors for?

9. Will robots control humans one day?

10. What advice do you have for the man in the story?

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ROBOTS 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 'suit'?

13. What do you think about what you read?

14. What do you think of this technology?

15. How does technology help in your life?

16. Would you wear an exoskeleton to make you stronger?

17. Would you wear an exoskeleton to make you run fast

18. Why might exoskeletons help soldiers or rescue workers?

19. What three adjectives best describe this technology?

20. What questions would you like to ask the doctors?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

LANGUAGE - CLOZE

A man who is paralyzed from (1) _____ his shoulders has been able to walk using a robotic suit. The 28-year-old man could not move his arms, hips and legs after an accident. Doctors (2) _____ him with a special robotic exoskeleton - this is a machine that (3) _____ his arms, legs and body. The machine was attached to the ceiling so the man could keep his balance and not fall (4) _____. He controlled the machine using high-tech sensors that were implanted near his brain. The man used his (5) _____ to tell the sensors to move the machine. His brain sent messages to the machine and it moved his arms and legs. He was able to walk a few (6) _____ using the machine even though he was paralyzed.

Doctors say they are in the (7) _____ stages of developing this technology. They believe robotic exoskeletons will help disabled people to live better lives in the future. Technology will be able to (8) _____ up signals from the brain to control wearable robotic technology. The next stage is to remove the ceiling harness. A neurosurgeon who co-led the exoskeleton (9) _____ commented on the exoskeleton suit. He said it was the first wireless, brain-controlled system to (10) _____ designed that can move all four limbs. The man was very happy with the test. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a (11) _____ where I can walk. I walk when I want and I stop (12) _____ I want."

Put the correct words from the table below in the above article.

1.	(a)	down	(b)	lower	(c)	less	(d)	below
2.	(a)	fitting	(b)	fitter	(c)	fits	(d)	fitted
3.	(a)	cared	(b)	covered	(c)	approached	(d)	sorted
4.	(a)	up	(b)	under	(c)	over	(d)	at
5.	(a)	cells	(b)	opinions	(c)	thoughts	(d)	meditation
6.	(a)	steps	(b)	stairs	(c)	ladders	(d)	hops
7.	(a)	before	(b)	early	(c)	premature	(d)	fast
8.	(a)	pick	(b)	hand	(c)	hold	(d)	stand
9.	(a)	trill	(b)	trial	(c)	thrill	(d)	trail
10.	(a)	have	(b)	do	(c)	be	(d)	take
11.	(a)	sharp	(b)	dot	(c)	point	(d)	level
12.	(a)	which	(b)	what	(c)	while	(d)	when

SPELLING

Paragraph 1

1. paralyzed from below his <u>lhrdosseu</u>

2. after an <u>ntcadice</u>

3. The machine was <u>hcdeatat</u>

4. high-tech <u>erosnss</u>

5. implanted near his <u>abrni</u>

6. sent <u>aesessmg</u> to the machine

Paragraph 2

7. in the early <u>egstsa</u>

8. help <u>iaedlsbd</u> people

9. <u>aearblwe</u> robotic technology

10. remove the <u>niecgil</u> harness

11. the first <u>iwlesser</u>, brain-controlled system

12. move all four <u>lmisb</u>

PUT THE TEXT BACK TOGETHER

Number these lines in the correct order.

(   )   a few steps using the machine even though he was paralyzed.

(   )   up signals from the brain to control wearable robotic technology. The next stage is to remove the ceiling

(   )   happy with the test. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a

(   )   sensors that were implanted near his brain. The man used his thoughts to tell the sensors to move the machine. His brain

(**1**)   A man who is paralyzed from below his shoulders has been able to walk using a

(   )   to the ceiling so the man could keep his balance and not fall over. He controlled the machine using high-tech

(   )   Doctors say they are in the early stages of developing this technology. They believe robotic

(   )   brain-controlled system to be designed that can move all four limbs. The man was very

(   )   robotic suit. The 28-year-old man could not move his arms, hips and legs after an accident. Doctors fitted

(   )   exoskeletons will help disabled people to live better lives in the future. Technology will be able to pick

(   )   harness. A neurosurgeon who co-led the exoskeleton trial commented on the exoskeleton suit. He said it was the first wireless,

(   )   point where I can walk. I walk when I want and I stop when I want."

(   )   sent messages to the machine and it moved his arms and legs. He was able to walk

(   )   him with a special robotic exoskeleton - this is a machine that covered his arms, legs and body. The machine was attached

PUT THE WORDS IN THE RIGHT ORDER

1. arms. 28-year-old not could not move his man The

2. to attached The was ceiling. the machine

3. using machine controlled high-tech sensors. He the

4. machine. the to messages His brain sent

5. a walk He steps. able was few to

6. early Doctors they are say stages. in the

7. exoskeletons believe will They robotic disabled help people.

8. next the is stage to harness. remove The

9. man The was very happy test. with the

10. tomorrow in my go exoskeleton. I home can't

CIRCLE THE CORRECT WORD (20 PAIRS)

A man who is paralyzed from *below / lower* his shoulders has been able to walk using a robotic suit. The 28-year-old man could not move his arms, hips and legs after *the / an* accident. Doctors fitted him with a *specially / special* robotic exoskeleton - this is a machine that *covered / covering* his arms, legs and body. The machine was *attached / attracted* to the ceiling so the man could keep his balance and not *fell / fall* over. He controlled the machine using high-tech sensors that were *implanted / replanted* near his brain. The man used his thoughts to tell the sensors to move the machine. His brain *sent / mailed* messages to the machine and it moved his arms and legs. He was *ability / able* to walk a few steps using the machine even though he was *paralyzed / paralysis*.

Doctors say they are in the *early / fast* stages of developing this technology. They believe robotic exoskeletons will help disabled people to *alive / live* better lives in *the / a* future. Technology will be able to *pick / send* up signals from the brain to control *wearable / wore* robotic technology. The next stage is to remove the ceiling harness. A neurosurgeon who co-led the exoskeleton *trail / trial* commented on the exoskeleton suit. He said it was the first wireless, brain-controlled system to *be / being* designed that can move all *four / for* limbs. The man was very happy with the test. He said: "I can't go home tomorrow in my exoskeleton, but I've got to a *blunt / point* where I can walk. I walk when I want and I stop *what / when* I want."

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

A   m_n   wh_ _s   p_r_l y z_d   f r_m   b_l_w   h_s   sh_ _ l
d_r s   h_s   b_ _ n   _b l_   t_   w_l k   _s_n g   _   r_b_t_c   s_ _
t .   T h_   2 8 - y_ _   r - _l d   m_n   c_ _ l d   n_t   m_v_   h_s
_r m s ,   h_p s   _n d   l_g s   _f t_r   _n   _c c_d_n t .   D_c
t_r s   f_t t_d   h_m   w_t h   _   s p_c_ _ l   r_b_t_c   _x_s
k_l_t_n   -   t h_s   _s   _   m_c h_n_   t h_t   c_v_r_d   h_s   _r
m s ,   l_g s   _n d   b_d y .   T h_   m_c h_n_   w_s   _t t_c
h_d   t_   t h_   c_ _ l_n g   s_   t h_   m_n   c_ _ l d   k_ _ p
h_s   b_l_n c_   _n d   n_t   f_l l   _v_r .   H_   c_n t r_l l_d   t
h_   m_c h_n_   _s_n g   h_g h - t_c h   s_n s_r s   t h_t   w_r_
_m p l_n t_d   n_ _ r   h_s   b r_ _ n .   T h_   m_n   _s_d   h_s
t h_ _ g h t s   t_   t_l l   t h_   s_n s_r s   t_   m_v_   t h_   m_c
h_n_ .   H_s   b r_ _ n   s_n t   m_s s_g_s   t_   t h_   m_c h_n_
_n d   _t   m_v_d   h_s   _r m s   _n d   l_g s .   H_   w_s   _b l_
t_   w_l k   _   f_w   s t_p s   _s_n g   t h_   m_c h_n_   _v_n   t
h_ _ g h   h_   w_s   p_r_l y z_d .

D_c t_r s   s_y   t h_y   _r_   _n   t h_ _ _ r l y   s t_g_s   _f
d_v_l_p_n g   t h_s   t_c h n_l_g y .   T h_y   b_l_ _ v_
r_b_t_c   _x_s k_l_t_n s   w_l l   h_l p   d_s_b l_d   p_ _ p l_
t_   l_v_   b_t t_r   l_v_s   _n   t h_   f_t_r_ .   T_c h n_l_g y
w_l l   b_   _b l_   t_   p_c k   _p   s_g n_l s   f r_m   t h_   b r_ _
n   t_   c_n t r_l   w_ _ r_b l_   r_b_t_c   t_c h n_l_g y .   T h_
n_x t   s t_g_   _s   t_   r_m_v_   t h_   c_ _ l_n g   h_r n_s s .
A   n_ _ r_s_r g_ _ n   w h_   c_- l_d   t h_   _x_s k_l_t_n   t
r_ _ l   c_m m_n t_d   _n   t h_   _x_s k_l_t_n   s_ _ t .   H_
s_ _ d   _t   w_s   t h_   f_r s t   w_r_l_s s ,   b r_ _ n - c_n t
r_l l_d   s y s t_m   t_   b_   d_s_g n_d   t h_t   c_n   m_v_   _l
l   f_ _ r   l_m b s .   T h_   m_n   w_s   v_r y   h_p p y   w_t
h   t h_   t_s t .   H_   s_ _ d :   " I   c_n ' t   g_   h_m_   t_m_r
r_w   _n   m y   _x_s k_l_t_n ,   b_t   I ' v_   g_t   t_ _   p_ _ n
t   w h_r_   I   c_n   w_l k .   I   w_l k   w h_n   I   w_n t   _n
d   I   s t_p   w h_n   I   w_n t . "

PUNCTUATE THE TEXT AND ADD CAPITALS

a man who is paralyzed from below his shoulders has been able to walk using a robotic suit the 28yearold man could not move his arms hips and legs after an accident doctors fitted him with a special robotic exoskeleton this is a machine that covered his arms legs and body the machine was attached to the ceiling so the man could keep his balance and not fall over he controlled the machine using hightech sensors that were implanted near his brain the man used his thoughts to tell the sensors to move the machine his brain sent messages to the machine and it moved his arms and legs he was able to walk a few steps using the machine even though he was paralyzed

doctors say they are in the early stages of developing this technology they believe robotic exoskeletons will help disabled people to live better lives in the future technology will be able to pick up signals from the brain to control wearable robotic technology the next stage is to remove the ceiling harness a neurosurgeon who coled the exoskeleton trial commented on the exoskeleton suit he said it was the first wireless braincontrolled system to be designed that can move all four limbs the man was very happy with the test he said i cant go home tomorrow in my exoskeleton but ive got to a point where i can walk i walk when i want and i stop when i want

PUT A SLASH (/) WHERE THE SPACES ARE

Amanwhoisparalyzedfrombelowhisshouldershasbeenabletowalkusi
ngaroboticsuit.The28-year-oldmancouldnotmovehisarms,hipsand
legsafteranaccident.Doctorsfittedhimwithaspecialroboticexoskelet
on-thisisamachinethatcoveredhisarms,legsandbody.Themachinew
asattachedtotheceilingsothemancouldkeephisbalanceandnotfallove
r.Hecontrolledthemachineusinghigh-techsensorsthatwereimplant
ednearhisbrain.Themanusedhisthoughtstotellthesensorstomoveth
emachine.Hisbrainsentmessagestothemachineanditmovedhisarms
andlegs.Hewasabletowalkafewstepsusingthemachineeventhoughh
ewasparalyzed.Doctorssaytheyareintheearlystagesofdevelopingthi
stechnology.Theybelieveroboticexoskeletonswillhelpdisabledpeopl
etolivebetterlivesinthefuture.Technologywillbeabletopickupsignalsf
romthebraintocontrolwearablerobotictechnology.Thenextstageisto
removetheceilingharness.Aneurosurgeonwhoco-ledtheexoskele
tontrialcommentedontheexoskeletonsuit.Hesaiditwasthefirstwirele
ss,brain-controlledsystemtobedesignedthatcanmoveallfourlimb
s.Themanwasveryhappywiththetest.Hesaid:"Ican'tgohometomorro
winmyexoskeleton,butI'vegottoapointwhereIcanwalk.IwalkwhenI
wantandIstopwhenIwant."

FREE WRITING

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

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ACADEMIC WRITING

We should spend more time on helping to develop cyborg technology. 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. ROBOTS: Make a poster about robots. Show your work to your classmates in the next lesson. Did you all have similar things?

4. EXOSKELETONS: Write a magazine article about humans using exoskeletons for their daily life. 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 robots. Ask him/her three questions about robots. Give him/her three of your ideas. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1.	d	2.	f	3.	b	4.	g	5.	c	6.	e	7.	a
8.	n	9.	k	10.	m	11.	h	12.	i	13.	l	14.	j

TRUE / FALSE (p.5)

a F b F c T d F e F f T g T h F

SYNONYM MATCH (p.5)

1.	paralyzed	a.	disabled
2.	fitted	b.	equipped
3.	attached	c.	fixed
4.	balance	d.	stability
5.	a few	e.	a small number of
6.	early	f.	initial
7.	help	g.	assist
8.	stage	h.	phase
9.	limbs	i.	arms and legs
10.	want	j.	wish

COMPREHENSION QUESTIONS (p.9)

1. The shoulders
2. 28
3. The ceiling
4. Sensors
5. A few steps
6. In the early stages
7. Wearable robotic technology
8. Happy
9. The exoskeleton
10. When he wanted to

WORDS IN THE RIGHT ORDER (p.20)

1. The 28-year-old man could not move his arms.
2. The machine was attached to the ceiling.
3. He controlled the machine using high-tech sensors.
4. His brain sent messages to the machine.
5. He was able to walk a few steps.
6. Doctors say they are in the early stages.
7. They believe robotic exoskeletons will help disabled people.
8. The next stage is to remove the harness.
9. The man was very happy with the test.
10. I can't go home tomorrow in my exoskeleton

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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