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## **Level 6**

### **Famous scientist says A.I. could destroy us**

**9th December, 2014**

<http://www.breakingnewsenglish.com/1412/141209-stephen-hawking.html>

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**Please try Levels 4 and 5 (they are easier).**

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# THE ARTICLE

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, one of the world's most renowned scientists, has warned that robots and machines with artificial intelligence could one day mean the end of us all. Professor Hawking recently told the BBC in an interview that: "The development of full artificial intelligence (AI) could spell the end of the human race." The famous cosmologist made his warning in response to a question about an update to the app he uses to allow him to communicate. Hawking suffers from motor neuron disease (also known as ALS) and needs a special voice synthesizer to talk. The update will be able to predict words he might want to use based on his previous communication.

Hawking said that AI has given many benefits to many people. He said it is still in its early stages of development, but when it becomes more sophisticated, it could prove a threat to our existence. He said: "It would take off on its own, and re-design itself at an ever increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded." This is not the first time he has issued such a warning. He gave a more chilling warning in April 2014, saying: "One can imagine such technology outsmarting financial markets, out-inventing human researchers, out-manipulating human leaders, and developing weapons we cannot even understand."

Sources: <http://www.bbc.co.uk/news/technology-30290540>  
<http://www.capitalotc.com/stephen-hawking-warns-about-artificial-intelligence/26311/>  
<http://voxxi.com/2014/12/stephen-hawking-message-about-ai/>  
[http://en.wikipedia.org/wiki/Stephen\\_Hawking](http://en.wikipedia.org/wiki/Stephen_Hawking)

# WARM-UPS

**1. ARTIFICIAL INTELLIGENCE:** Students walk around the class and talk to other students about artificial intelligence. 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?

*renowned / scientists / AI / the end / the human race / cosmologist / communication / benefits / early stages / development / evolution / warning / technology / weapons*

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

**3. ROBOTS:** How can they help us? Complete this table with your partner(s). Change partners often and share what you wrote.

	How robots could help	Good things	Bad things
At home			
Homework			
Driving			
Safety			
Marriage			
Movies			

**4. A.I.:** Students A **strongly** believe artificial intelligence will be a vital part of our life; Students B **strongly** believe it is very, very dangerous. Change partners again and talk about your conversations.

**5. THE END:** Rank these with your partner. Put the things most likely to spell the end of the human race at the top. Change partners often and share your rankings.

- nuclear war
- artificial intelligence
- global warming
- a virus
- an asteroid strike
- overpopulation
- a natural disaster
- food shortages

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

# BEFORE READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

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

- |  |       |
|--|-------|
| a. The article says Stephen Hawking is a renowned scientist.             | T / F |
| b. Stephen Hawking spoke about artificial intelligence to the BBC.       | T / F |
| c. Professor Hawking's job is a cosmologist.                             | T / F |
| d. A special app will predict the words Stephen Hawking might need.      | T / F |
| e. Hawking said AI could be a threat if it becomes more sophisticated.   | T / F |
| f. Hawking said AI would evolve at a slower rate than human evolution.   | T / F |
| g. This is the first time Hawking has warned of the threat from A.I.     | T / F |
| h. Hawking said A.I would not be better than humans at inventing things. | T / F |

**2. SYNONYM MATCH:** Match the following synonyms from the article.

- |                  |                |
|------------------|----------------|
| 1. renowned      | a. earlier     |
| 2. end           | b. requires    |
| 3. response      | c. phases      |
| 4. needs         | d. death       |
| 5. previous      | e. advanced    |
| 6. benefits      | f. given       |
| 7. stages        | g. famous      |
| 8. sophisticated | h. controlling |
| 9. issued        | i. reply       |
| 10. manipulating | j. advantages  |

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

- |                                     |                        |
|-------------------------------------|------------------------|
| 1. one of the world's most renowned | a. the human race      |
| 2. the end                          | b. increasing rate     |
| 3. spell the end of                 | c. to a question       |
| 4. in response                      | d. of development      |
| 5. motor neuron disease             | e. markets             |
| 6. in its early stages              | f. scientists          |
| 7. prove a threat                   | g. chilling warning    |
| 8. re-design itself at an ever      | h. (also known as ALS) |
| 9. He gave a more                   | i. of us all           |
| 10. outsmarting financial           | j. to our existence    |

# GAP FILL

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, one of the world's most (1) \_\_\_\_\_ scientists, has warned that robots and machines with artificial intelligence could one day (2) \_\_\_\_\_ the end of us all. Professor Hawking recently told the BBC in an interview that: "The development of (3) \_\_\_\_\_ artificial intelligence (AI) could (4) \_\_\_\_\_ the end of the human race." The famous cosmologist made his warning in (5) \_\_\_\_\_ to a question about an update to the app he uses to allow him to communicate. Hawking (6) \_\_\_\_\_ from motor neuron disease (also known as ALS) and needs a special voice synthesizer to talk. The (7) \_\_\_\_\_ will be able to predict words he might want to use (8) \_\_\_\_\_ on his previous communication.

*response*  
*based*  
*full*  
*suffers*  
*renowned*  
*update*  
*mean*  
*spell*

Hawking said that AI has given many (9) \_\_\_\_\_ to many people. He said it is still in its early (10) \_\_\_\_\_ of development, but when it becomes more sophisticated, it could prove a (11) \_\_\_\_\_ to our existence. He said: "It would take off on its own, and re-design itself at an ever increasing (12) \_\_\_\_\_. Humans, who are limited by slow biological (13) \_\_\_\_\_, couldn't compete, and would be superseded." This is not the first time he has issued such a warning. He gave a more (14) \_\_\_\_\_ warning in April 2014, saying: "One can imagine such technology outsmarting financial (15) \_\_\_\_\_, out-inventing human researchers, out-manipulating human leaders, and developing (16) \_\_\_\_\_ we cannot even understand."

*rate*  
*chilling*  
*stages*  
*weapons*  
*benefits*  
*evolution*  
*markets*  
*threat*

# LISTENING – Guess the answers. Listen to check.

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

- 1) Professor Stephen Hawking is one of the world's \_\_\_\_\_
  - a. most renewed scientists
  - b. most renowned scientists
  - c. most renounced scientists
  - d. most re-owned scientists
- 2) machines with artificial intelligence could one day \_\_\_\_\_ us all
  - a. meant the end of
  - b. means the end of
  - c. meaning the end of
  - d. mean the end of
- 3) artificial intelligence (AI) could spell the end \_\_\_\_\_
  - a. of the human races
  - b. of the human lace
  - c. of the human race
  - d. of the human laces
- 4) in response to a question about an update to \_\_\_\_\_
  - a. the nap he uses
  - b. the yap he uses
  - c. the app he uses
  - d. the tap he uses
- 5) predict words he might want to use based on his \_\_\_\_\_
  - a. previously communication
  - b. previous communicates
  - c. previous communicating
  - d. previous communication
- 6) Hawking said that AI has given many benefits \_\_\_\_\_
  - a. too many people
  - b. to many people
  - c. two many people
  - d. tomb any people
- 7) when it becomes more sophisticated, it could prove a threat \_\_\_\_\_
  - a. to our existent
  - b. to our exist ants
  - c. to our existence
  - d. to our exit stance
- 8) It would take off on its own, and re-design itself at an \_\_\_\_\_
  - a. never increasing rate
  - b. ever increasing rate
  - c. even increasing rate
  - d. evenly increasing rate
- 9) This is not the first time he has issued \_\_\_\_\_
  - a. such a warning
  - b. stitch a warning
  - c. search a warning
  - d. starch a warning
- 10) One can imagine such technology outsmarting \_\_\_\_\_
  - a. financially markets
  - b. finance shall markets
  - c. financials markets
  - d. financial markets

# LISTENING – Listen and fill in the gaps

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, (1) \_\_\_\_\_ most renowned scientists, has warned that robots and machines with artificial intelligence could one day mean (2) \_\_\_\_\_. Professor Hawking recently told the BBC in an interview that: "The development of full artificial intelligence (AI) could (3) \_\_\_\_\_ of the human race." The famous cosmologist made his warning (4) \_\_\_\_\_ a question about an update to the app he uses to allow him to communicate. Hawking (5) \_\_\_\_\_ neuron disease (also known as ALS) and needs a special voice synthesizer to talk. The update will be able to predict words he might want (6) \_\_\_\_\_ his previous communication.

Hawking said that AI has given many benefits to many people. He said it is (7) \_\_\_\_\_ stages of development, but when it becomes more sophisticated, it could (8) \_\_\_\_\_ to our existence. He said: "It would take (9) \_\_\_\_\_, and re-design itself at an ever increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded." This (10) \_\_\_\_\_ time he has issued such a warning. He gave a more chilling warning in April 2014, saying: "One can imagine such technology (11) \_\_\_\_\_ markets, out-inventing human researchers, out-manipulating human leaders, and developing (12) \_\_\_\_\_ even understand."

# COMPREHENSION QUESTIONS

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

1. Which news agency did professor Hawking talk to?

---

2. What did Hawking say AI could spell the end of?

---

3. Which one of professor Hawking's jobs was mentioned in the article?

---

4. What is motor neuron disease also known as?

---

5. What will a new app used by Hawking be able to predict?

---

6. Who did Hawking say has benefited from AI?

---

7. What did Hawking say AI threatens?

---

8. What did Hawking say humans are limited by?

---

9. When did Hawking previously warn us about the dangers of AI?

---

10. What did Hawking say AI would develop that we could not understand?

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# MULTIPLE CHOICE - QUIZ

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

1. Which news agency did professor Hawking talk to?
  - a) BBC
  - b) CNN
  - c) ABC
  - d) CBC
2. What did Hawking say AI could spell the end of?
  - a) the alphabet
  - b) computers
  - c) the human race
  - d) time
3. Which one of professor Hawking's jobs was mentioned in the article?
  - a) theoretical physicist
  - b) cosmologist
  - c) author
  - d) lecturer
4. What is motor neuron disease also known as?
  - a) DLS
  - b) CLS
  - c) BLS
  - d) ALS
5. What will a new app used by Hawking be able to predict?
  - a) words
  - b) the future
  - c) weather
  - d) new comets
6. Who did Hawking say has benefited from AI?
  - a) lecturers
  - b) computer makers
  - c) scientists
  - d) many people
7. What did Hawking say AI threatens?
  - a) the universe
  - b) our existence
  - c) mainframe computers
  - d) Earth
8. What did Hawking say humans are limited by?
  - a) quantum physics
  - b) their brains
  - c) computers
  - d) biological evolution
9. When did Hawking previously warn us about the dangers of AI?
  - a) August 1999
  - b) May 2006
  - c) April 2014
  - d) March 2010
10. What did Hawking say AI would develop that we could not understand?
  - a) cyber-species
  - b) weapons
  - c) maths
  - d) apps

# ROLE PLAY

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

## **Role A – Artificial intelligence**

You think artificial intelligence is the biggest threat to the human race. Tell the others three reasons why. Tell them why their things aren't so bad. Also, tell the others which is the least dangerous of these (and why): global warming, overpopulation or a virus.

## **Role B – Global warming**

You think global warming is the biggest threat to the human race. Tell the others three reasons why. Tell them why their things aren't so bad. Also, tell the others which is the least dangerous of these (and why): artificial intelligence, overpopulation or a virus.

## **Role C – Overpopulation**

You think overpopulation is the biggest threat to the human race. Tell the others three reasons why. Tell them why their things aren't so bad. Also, tell the others which is the least dangerous of these (and why): global warming, artificial intelligence or a virus.

## **Role D – A virus**

You think a virus is the biggest threat to the human race. Tell the others three reasons why. Tell them why their things aren't so bad. Also, tell the others which is the least dangerous of these (and why): global warming, overpopulation or artificial intelligence.

# AFTER READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

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

<b>artificial</b>	<b>intelligence</b>
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- 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:

<ul style="list-style-type: none"><li>• most</li><li>• interview</li><li>• spell</li><li>• response</li><li>• motor</li><li>• stages</li></ul>	<ul style="list-style-type: none"><li>• benefits</li><li>• threat</li><li>• take</li><li>• first</li><li>• imagine</li><li>• understand</li></ul>
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# ARTIFICIAL INTELLIGENCE SURVEY

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Write five GOOD questions about artificial intelligence 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.

# ARTIFICIAL INTELLIGENCE DISCUSSION

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

- 1) What did you think when you read the headline?
- 2) What springs to mind when you hear the word 'scientists'?
- 3) What do you think about artificial intelligence?
- 4) Do you like the idea of robots helping us?
- 5) Do you think we will be controlled by robots one day?
- 6) How could A.I. spell the end of the human race?
- 7) What do you think it's like to be a cosmologist?
- 8) Do things from science fiction usually become part of our life?
- 9) In what ways would you like artificial intelligence to help us?
- 10) What do you know about Stephen Hawking?

*Famous scientist says A.I. could destroy us – 9th December, 2014*  
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# ARTIFICIAL INTELLIGENCE DISCUSSION

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

- 11) Did you like reading this article? Why/not?
- 12) How useful is A.I.?
- 13) How could A.I. threaten our existence?
- 14) Would we be able to stop robots with A.I. from taking over?
- 15) Should there be restrictions on the power of A.I.?
- 16) What will robots be doing in 100 years from now?
- 17) What damage could A.I. do to our daily lives?
- 18) How likely is it that technology will take over the world?
- 19) What are your predictions for life in the year 2100?
- 20) What questions would you like to ask Stephen Hawking?

# DISCUSSION (Write your own questions)

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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# DISCUSSION (Write your own questions)

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

# LANGUAGE - CLOZE

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, one of the world's most (1) \_\_\_\_\_ scientists, has warned that robots and machines with artificial intelligence could one day (2) \_\_\_\_\_ the end of us all. Professor Hawking recently told the BBC in an interview that: "The development of (3) \_\_\_\_\_ artificial intelligence (AI) could spell the end of the human race." The famous cosmologist made his warning (4) \_\_\_\_\_ response to a question about an update to the app he uses to allow him to communicate. Hawking suffers from motor neuron disease (also (5) \_\_\_\_\_ as ALS) and needs a special voice synthesizer to talk. The update will be able to predict words he might want to use based (6) \_\_\_\_\_ his previous communication.

Hawking said that AI has given many benefits to (7) \_\_\_\_\_ people. He said it is still in its early stages of development, but when it becomes more sophisticated, it could (8) \_\_\_\_\_ a threat to our existence. He said: "It would (9) \_\_\_\_\_ off on its own, and re-design itself at an ever increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded." This is not the first time he has (10) \_\_\_\_\_ such a warning. He gave a more chilling warning in April 2014, saying: "One can imagine (11) \_\_\_\_\_ technology outsmarting financial markets, out-inventing human researchers, out-manipulating human leaders, and developing weapons we cannot (12) \_\_\_\_\_ understand."

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

- |     |             |               |              |               |
|-----|-------------|---------------|--------------|---------------|
| 1.  | (a) renewed | (b) renounced | (c) renowned | (d) renovated |
| 2.  | (a) mean    | (b) median    | (c) mode     | (d) average   |
| 3.  | (a) full    | (b) whole     | (c) entire   | (d) all       |
| 4.  | (a) in      | (b) on        | (c) to       | (d) at        |
| 5.  | (a) knowing | (b) known     | (c) knows    | (d) knew      |
| 6.  | (a) in      | (b) to        | (c) at       | (d) on        |
| 7.  | (a) any     | (b) much      | (c) many     | (d) whole     |
| 8.  | (a) proved  | (b) proven    | (c) proof    | (d) prove     |
| 9.  | (a) take    | (b) get       | (c) let      | (d) blast     |
| 10. | (a) issued  | (b) thrown    | (c) orated   | (d) done      |
| 11. | (a) thus    | (b) such      | (c) hither   | (d) unto      |
| 12. | (a) alone   | (b) just      | (c) even     | (d) flat      |

# SPELLING

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

## Paragraph 1

1. one of the world's most dennrweo scientists
2. tficliraa intelligence
3. The famous oolscsiogmt
4. in sepsoner to a question
5. dpticer words he might want to use
6. based on his uveosrpi communication

## Paragraph 2

7. it becomes more ihscdedoitsap
8. prove a threat to our eeitcensx
9. biological ieutonvlo
10. would be erdusspede
11. a more iillgnhc warning
12. out-gtimpnnuilaa human leaders



# PUT THE TEXT BACK TOGETHER

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Number these lines in the correct order.

( )	Hawking said that AI has given many benefits to many people. He said it is still in its early
( )	human researchers, out-manipulating human leaders, and developing weapons we cannot even understand."
( )	existence. He said: "It would take off on its own, and re-design itself at an ever increasing
( )	of us all. Professor Hawking recently told the BBC in an interview that: "The development of full artificial intelligence
( )	imagine such technology outsmarting financial markets, out-inventing
( )	the first time he has issued such a warning. He gave a more chilling warning in April 2014, saying: "One can
( )	stages of development, but when it becomes more sophisticated, it could prove a threat to our
( )	response to a question about an update to the app he uses to allow him to communicate. Hawking suffers
( )	rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded." This is not
( )	(AI) could spell the end of the human race." The famous cosmologist made his warning in
( )	from motor neuron disease (also known as ALS) and needs a special voice synthesizer to talk. The update will
( )	that robots and machines with artificial intelligence could one day mean the end
( )	be able to predict words he might want to use based on his previous communication.
( <b>1</b> )	Professor Stephen Hawking, one of the world's most renowned scientists, has warned

# PUT THE WORDS IN THE RIGHT ORDER

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

1. scientists renowned most world's the of One .

---

2. day AI of mean could Machines us the one with all end .

---

3. of race could end human AI the the spell .

---

4. to the app he uses A question about an update .

---

5. words he might want to use Be able to predict .

---

6. given people many benefits AI to has many .

---

7. of stages early its in still is it said He development .

---

8. biological by are evolution slow limited Humans .

---

9. has first is warning issued time not such he the This a .

---

10. weapons cannot understand Developing we even .

---

# CIRCLE THE CORRECT WORD (20 PAIRS)

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, one of the world's most *renewed / renowned* scientists, has warned that robots and machines with artificial intelligence could one day *meant / mean* the end of *them / us* all. Professor Hawking recently told the BBC in *the / an* interview that: "The development of full artificial intelligence (AI) could *spelling / spell* the end of the human race." The famous cosmologist made his warning *in / on* response to a question about an update to the app *he / it* uses to allow him to communicate. Hawking *suffers / experiences* from motor neuron disease (also known as ALS) and needs a *specially / special* voice synthesizer to talk. The update will be able to predict words he might want to use based *on / in* his previous communication.

Hawking said that AI has given many *beneficial / benefits* to many people. He said it is still *in / on* its early stages of development, but when it becomes *more / much* sophisticated, it could prove a *threat / threaten* to our existence. He said: "It would take off on its own, and re-design itself at an *ever / even* increasing rate. Humans, who are limited by *slow / slowly* biological evolution, couldn't compete, and would be *super-speeded / superseded*." This is not the first time he has issued *like / such* a warning. He gave a more chilling warning in April 2014, saying: "One can imagine such technology *smarting / outsmarting* financial markets, out-inventing human researchers, out-manipulating human leaders, and developing weapons we cannot *oddly / even* understand."

**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)

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Pr\_f\_ss\_r St\_ph\_n H\_wk\_ng, \_n\_ \_f th\_ w\_rld's m\_st  
r\_n\_wn\_d sc\_\_nt\_sts, h\_s w\_rn\_d th\_t r\_b\_ts \_nd  
m\_ch\_n\_s w\_th \_rt\_f\_c\_\_l \_nt\_ll\_g\_nc\_ c\_\_ld \_n\_d\_y  
m\_\_n th\_ \_nd \_f \_s \_\_ll. Pr\_f\_ss\_r H\_wk\_ng r\_c\_ntly  
t\_ld th\_ BBC \_n \_n \_nt\_rv\_\_w th\_t: "Th\_ d\_v\_l\_pm\_nt  
\_f f\_ll \_rt\_f\_c\_\_l \_nt\_ll\_g\_nc\_ (\_\_) c\_\_ld sp\_ll th\_ \_nd  
\_f th\_ h\_m\_n\_r\_c\_." Th\_ f\_m\_\_s c\_sm\_l\_g\_st m\_d\_  
h\_s w\_rn\_ng \_n r\_sp\_ns\_ t\_ \_\_ q\_\_st\_\_n \_b\_\_t \_n  
\_pd\_t\_ t\_ th\_ \_\_pp h\_ \_\_s\_s t\_ \_\_ll\_w h\_m t\_  
c\_mm\_n\_c\_t\_. H\_wk\_ng s\_ff\_rs fr\_m m\_t\_r n\_\_r\_n  
d\_s\_\_s\_ (\_ls\_ kn\_wn \_s\_ LS) \_nd n\_\_ds \_ sp\_c\_\_l  
v\_\_c\_ synth\_s\_z\_r\_t\_t\_lk. Th\_ \_pd\_t\_ w\_ll b\_\_bl\_t\_  
pr\_d\_ct w\_rds h\_ m\_ght w\_nt t\_ \_\_s\_ b\_s\_d \_n h\_s  
pr\_v\_\_s c\_mm\_n\_c\_t\_\_n.

H\_wk\_ng s\_\_d th\_t \_\_ h\_s g\_v\_n m\_ny b\_n\_f\_ts t\_  
m\_ny p\_\_pl\_. H\_ s\_\_d t\_s st\_ll \_n\_ts \_\_rly st\_g\_s \_f  
d\_v\_l\_pm\_nt, \_b\_t wh\_n \_t b\_c\_m\_s m\_r\_  
s\_ph\_st\_c\_t\_d, \_t c\_\_ld pr\_v\_ \_\_ thr\_\_t t\_ \_\_r  
\_x\_st\_nc\_. H\_ s\_\_d: "t\_w\_\_ld t\_k\_ \_\_ff\_n\_ts\_wn, \_nd  
r\_-d\_s\_gn\_ts\_lf \_t \_n \_v\_r \_ncr\_\_s\_ng r\_t\_. H\_m\_ns,  
wh\_ \_r\_ l\_m\_t\_d by sl\_w b\_\_l\_g\_c\_l \_v\_l\_t\_\_n,  
c\_\_ldn't c\_m\_p\_t\_, \_nd w\_\_ld b\_s\_p\_rs\_d\_d." Th\_s \_s  
n\_t th\_ f\_rst t\_m\_h\_ h\_s \_ss\_\_d s\_ch \_w\_rn\_ng. H\_  
g\_v\_ \_\_ m\_r\_ ch\_ll\_ng w\_rn\_ng \_n \_pr\_l 2014, s\_y\_ng:  
"\_n\_ c\_n \_m\_g\_n\_ s\_ch t\_chn\_l\_gy \_\_tsm\_rt\_ng  
f\_n\_nc\_\_l m\_rk\_ts, \_\_t-nv\_nt\_ng h\_m\_n\_r\_s\_\_rch\_rs,  
\_\_t-m\_n\_p\_l\_t\_ng h\_m\_n l\_\_d\_rs, \_nd d\_v\_l\_p\_ng  
w\_\_p\_ns w\_ c\_nn\_t \_v\_n \_nd\_rst\_nd."

# PUNCTUATE THE TEXT AND ADD CAPITALS

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

professor stephen hawking one of the world's most renowned scientists has warned that robots and machines with artificial intelligence could one day mean the end of us all professor hawking recently told the bbc in an interview that "the development of full artificial intelligence (ai) could spell the end of the human race" the famous cosmologist made his warning in response to a question about an update to the app he uses to allow him to communicate hawking suffers from motor neuron disease (also known as als) and needs a special voice synthesizer to talk the update will be able to predict words he might want to use based on his previous communication

hawking said that ai has given many benefits to many people he said it is still in its early stages of development but when it becomes more sophisticated it could prove a threat to our existence he said "it would take off on its own and re-design itself at an ever increasing rate humans who are limited by slow biological evolution couldn't compete and would be superseded" this is not the first time he has issued such a warning he gave a more chilling warning in april 2014 saying "one can imagine such technology outsmarting financial markets out-inventing human researchers out-manipulating human leaders and developing weapons we cannot even understand"

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <http://www.BreakingNewsEnglish.com/1412/141209-stephen-hawking.html>

Professor Stephen Hawking, one of the world's most renowned scientists, has warned that robots and machines with artificial intelligence could one day mean the end of us all. Professor Hawking recently told the BBC in an interview that: "The development of full artificial intelligence (AI) could spell the end of the human race." The famous cosmologist made his warning in response to a question about an update to the app he uses to allow him to communicate. Hawking suffers from motor neuron disease (also known as ALS) and needs a special voice synthesizer to talk. The update will be able to predict words he might want to use based on his previous communication. Hawking said that AI has given many benefits to many people. He said it is still in its early stages of development, but when it becomes more sophisticated, it could prove a threat to our existence. He said: "It would take off on its own, and re-design itself at an ever-increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded." This is not the first time he has issued such a warning. He gave a more chilling warning in April 2014, saying: "One can imagine such technology outsmarting financial markets, out-inventing human researchers, out-manipulating human leaders, and developing weapons we cannot even understand."







# 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 artificial intelligence. Share what you discover with your partner(s) in the next lesson.

**3. ARTIFICIAL INTELLIGENCE:** Make a poster about artificial intelligence. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. THE END:** Write a magazine article about what Stephen Hawking said about AI spelling the end of the human race. Include imaginary interviews with people who agree and disagree that AI is a big danger.

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 AI. Ask him/her three questions about artificial intelligence. Give him/her three ideas on how we can benefit more from it. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## TRUE / FALSE (p.4)

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

## SYNONYM MATCH (p.4)

- |                  |                |
|------------------|----------------|
| 1. renowned      | a. famous      |
| 2. end           | b. death       |
| 3. response      | c. reply       |
| 4. needs         | d. requires    |
| 5. previous      | e. earlier     |
| 6. benefits      | f. advantages  |
| 7. stages        | g. phases      |
| 8. sophisticated | h. advanced    |
| 9. issued        | i. given       |
| 10. manipulating | j. controlling |

## COMPREHENSION QUESTIONS (p.8)

1. BBC
2. The human race
3. Cosmologist
4. ALS
5. Words
6. Many people
7. Our existence
8. Biological evolution
9. April 2014
10. Weapons

## MULTIPLE CHOICE - QUIZ (p.9)

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 ;-)