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Level 6 – 1st September, 2018

Air pollution damages intelligence, says study

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<https://breakingnewsenglish.com/1809/180901-air-pollution.html>

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

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THE ARTICLE

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have revealed that air pollution may be responsible for a significant reduction in intelligence. Research conducted for the World Health Organization (WHO) in China showed that air pollution was responsible for notable falls in student test scores for languages and arithmetic. The Chinese study is called, "The impact of exposure to air pollution on cognitive performance". It was published in a journal called, "Proceedings of the National Academy of Sciences". The study took place over a period of four years. Researchers analyzed verbal and arithmetic tests taken by 20,000 people of all ages. They said: "Polluted air may impede cognitive ability as people become older."

Researchers say their study is a warning to the rest of the world, especially to those who live in cities. The WHO says over 91 per cent of the world population live in areas with toxic air. Air pollution is currently the fourth highest cause of deaths worldwide. The researchers discovered that the longer people were exposed to polluted air, the greater was the damage to their intelligence. They equated the impact of air pollution to losing a year's worth of education. For those aged over 60, this could be the equivalent of several years of lost education. Researcher Dr Xi Chen warned: "There is no shortcut to solve this issue. Governments really need to take concrete measures to reduce air pollution."

Sources: <https://www.independent.co.uk/environment/air-pollution-intelligence-cognitive-ability-arithmetic-verbal-skills-a8510431.html>
<https://www.timesofmalta.com/articles/view/20180828/world/air-pollution-could-make-you-stupid-new-research-warns.687798>
<https://news.sky.com/story/air-pollution-causes-huge-reduction-in-intelligence-study-suggests-11484039>

WARM-UPS

1. AIR POLLUTION: Students walk around the class and talk to other students about air pollution. 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?

scientists / reduction / responsible / test scores / impact / exposure / performance / warning / the rest of the world / population / damage / intelligence / education / issue

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

3. POLLUTION: Students A **strongly** believe air pollution will never go away; Students B **strongly** believe it will. Change partners again and talk about your conversations.

4. INTELLIGENCE: How do these things affect people's intelligence? Complete this table with your partner(s). Change partners often and share what you wrote.

	How?	Why?
Pollution		
Food		
Teachers		
Parents		
Internet		
Exercise		

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

6. COGNITIVE PERFORMANCE: Rank these with your partner. Put the best things for improving cognitive performance at the top. Change partners often and share your rankings.

- studying
- sleep
- exercise
- diet
- teachers
- practice
- walking
- exam success

VOCABULARY MATCHING

Paragraph 1

- | | |
|----------------|---|
| 1. revealed | a. The action of one object coming forcibly into contact with another. |
| 2. significant | b. Delay or prevent someone or something by obstructing them. |
| 3. arithmetic | c. Made previously unknown or secret information known to others. |
| 4. impact | d. The area of mathematics dealing with adding, subtracting, dividing and multiplying numbers. |
| 5. exposure | e. Great or important enough to be worthy of attention. |
| 6. cognitive | f. The state of having contact with something. |
| 7. impede | g. About the mental action or process of acquiring knowledge and understanding through thought, experience, and the senses. |

Paragraph 2

- | | |
|----------------|---|
| 8. toxic | h. At the present time. |
| 9. currently | i. Caused someone to experience or be at risk of. |
| 10. exposed | j. An accelerated or quickened way of doing or achieving something. |
| 11. equated | k. Poisonous. |
| 12. equivalent | l. Specific; definite. |
| 13. shortcut | m. Equal in value, amount, function, meaning, etc. |
| 14. concrete | n. Considered or thought one thing to be the same as or similar to another thing. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

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

- a. Scientists say air pollution leads to big reductions in intelligence. **T / F**
- b. Scientists said pollution reduced language and arithmetic test scores. **T / F**
- c. Scientists conducted the research over a four-year period. **T / F**
- d. Around 20,000 teenagers took a test in the research. **T / F**
- e. About 91% of people live in areas with very polluted air. **T / F**
- f. Air pollution is the biggest cause of death worldwide. **T / F**
- g. Scientists said air pollution caused a loss of 10 years' education. **T / F**
- h. A researcher said there were plenty of shortcuts to solve this problem. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|-----------------------|--------------|
| 1. revealed | a. effect |
| 2. significant | b. lessen |
| 3. impact | c. hinder |
| 4. period | d. poisonous |
| 5. impede | e. serious |
| 6. warning | f. issued |
| 7. toxic | g. shown |
| 8. published | h. work out |
| 9. solve | i. timeframe |
| 10. reduce | j. caution |

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

- | | |
|--|-------------------------|
| 1. responsible for a significant reduction | a. worth of education |
| 2. notable falls in | b. period of four years |
| 3. cognitive | c. become older |
| 4. The study took place over a | d. measures |
| 5. impede cognitive ability as people | e. student test scores |
| 6. their study is a warning to the | f. solve this issue |
| 7. live in areas with | g. rest of the world |
| 8. losing a year's | h. in intelligence |
| 9. There is no shortcut to | i. toxic air |
| 10. Governments really need to take concrete | j. performance |

GAP FILL

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have (1) _____ that air pollution may be responsible for a significant reduction in intelligence. Research conducted for the World Health Organization (WHO) in China showed that air pollution was (2) _____ for notable falls in student test scores for languages and (3) _____. The Chinese study is called, "The impact of exposure to air pollution on (4) _____ performance". It was published in a (5) _____ called, "Proceedings of the National Academy of Sciences". The study took place over a (6) _____ of four years. Researchers analyzed verbal and arithmetic tests taken by 20,000 people of all ages. They said: "Polluted air may (7) _____ cognitive ability as people become (8) _____."

responsible
journal
older
revealed
cognitive
impede
arithmetic
period

Researchers say their study is a warning to the (9) _____ of the world, especially to those who live in cities. The WHO says over 91 per cent of the world population live in areas with (10) _____ air. Air pollution is currently the fourth highest (11) _____ of deaths worldwide. The researchers discovered that the longer people were (12) _____ to polluted air, the greater was the damage to their intelligence. They equated the (13) _____ of air pollution to losing a year's (14) _____ of education. For those aged over 60, this could be the equivalent of (15) _____ years of lost education. Researcher Dr Xi Chen warned: "There is no shortcut to solve this issue. Governments really need to take (16) _____ measures to reduce air pollution."

cause
impact
concrete
rest
several
toxic
exposed
worth

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

- 1) Scientists have revealed that air pollution may be responsible _____ reduction
 - a. for a significance
 - b. for a signify can't
 - c. for a sign if I can't
 - d. for a significant
- 2) air pollution was responsible for notable falls in student _____
 - a. tests scores
 - b. test cores
 - c. test scores
 - d. tests cores
- 3) The impact of exposure to air pollution _____ performance
 - a. on cognitive
 - b. on cognitively
 - c. in cognitive
 - d. an cognitive
- 4) Researchers analyzed verbal and arithmetic tests taken by 20,000 people _____
 - a. of all ages
 - b. off all ages
 - c. of all age is
 - d. of awl ages
- 5) Polluted air may impede cognitive ability as people _____
 - a. became older
 - b. become older
 - c. becomes older
 - d. become moldier
- 6) The WHO says over 91 per cent of the world population live in areas _____
 - a. with toxic air
 - b. with toxicity air
 - c. with tock sic air
 - d. with tock sick air
- 7) The researchers discovered that the longer people were _____ air
 - a. exposed two pollute it
 - b. exposed to polluted
 - c. exposed too polluted
 - d. exposed to pollute it
- 8) They equated the impact of air pollution to losing a _____ education
 - a. year's worth off
 - b. year is worth of
 - c. year is worthy of
 - d. year's worth of
- 9) this could be the equivalent of several years of _____
 - a. loss education
 - b. lose educational
 - c. lost educational
 - d. lost education
- 10) Governments really need to take concrete measures _____ pollution
 - a. to redact air
 - b. to re-deuce air
 - c. to re-juice air
 - d. to reduce air

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have (1) _____ pollution may be responsible for a significant reduction in intelligence. Research conducted for the World Health Organization (WHO) in China (2) _____ pollution was responsible for notable falls in student (3) _____ languages and arithmetic. The Chinese study is called, "The impact of exposure to air pollution on cognitive performance". It was published (4) _____ called, "Proceedings of the National Academy of Sciences". The study took place (5) _____ of four years. Researchers analyzed verbal and arithmetic tests taken by 20,000 people of all ages. They said: "Polluted air may (6) _____ as people become older."

Researchers say their study (7) _____ to the rest of the world, especially to those who live in cities. The WHO says over 91 per cent of the world population (8) _____ with toxic air. Air pollution is currently the fourth highest (9) _____ worldwide. The researchers discovered that the longer people were exposed to polluted air, the greater (10) _____ to their intelligence. They equated the impact of air pollution to losing a year's worth of education. For those aged over 60, this could be the equivalent (11) _____ of lost education. Researcher Dr Xi Chen warned: "There is no shortcut to solve this issue. Governments really need to take (12) _____ reduce air pollution."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

1. In which country was the research conducted?
2. In what two subjects did the scientists say test scores fell in?
3. Where was the study published?
4. How long was the study?
5. How old were the people who took part in the research?
6. What percentage of people in the world lives in areas with toxic air?
7. What is currently the fourth highest cause of death worldwide?
8. What was the equivalent loss of education caused by air pollution?
9. Who might lose several years of education because of air pollution?
10. What did a researcher say governments needed to take?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

- 1) In which country was the research conducted?
 - a) China
 - b) the USA
 - c) India
 - d) Brazil
- 2) In what two subjects did the scientists say test scores fell in?
 - a) history and geography
 - b) sports and dance
 - c) languages and arithmetic
 - d) physics and biology
- 3) Where was the study published?
 - a) California
 - b) in a newspaper
 - c) the Internet
 - d) a journal
- 4) How long was the study?
 - a) 14 years
 - b) 4 years
 - c) 4 months
 - d) 40 months
- 5) How old were the people who took part in the research?
 - a) all ages
 - b) middle-aged
 - c) in their teens
 - d) over 60
- 6) What percentage of people in the world lives in areas with toxic air?
 - a) about 91%
 - b) under 91%
 - c) around 91%
 - d) over 91%
- 7) What is currently the fourth highest cause of death worldwide?
 - a) viruses
 - b) war
 - c) air pollution
 - d) cancer
- 8) What was the equivalent loss of education caused by air pollution?
 - a) 10% lower test scores
 - b) one year's worth of education
 - c) one day a week
 - d) 289 litres
- 9) Who might lose several years of education because of air pollution?
 - a) farmers
 - b) city dwellers
 - c) people over 60
 - d) teenagers
- 10) What did a researcher say governments needed to take?
 - a) money
 - b) concrete measures
 - c) chimneys
 - d) more time

ROLE PLAY

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Role A – Sleep

You think sleep is the best thing for improving cognitive performance. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least effective of these (and why): exercise, diet or exam success.

Role B – Exercise

You think exercise is the best thing for improving cognitive performance. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least effective of these (and why): sleep, diet or exam success.

Role C – Diet

You think diet is the best thing for improving cognitive performance. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least effective of these (and why): exercise, sleep or exam success.

Role D – Exam Success

You think exam success is the best thing for improving cognitive performance. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least effective of these (and why): exercise, diet or sleep.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

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

air	pollution
------------	------------------

- 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">• may• falls• published• period• taken• impede	<ul style="list-style-type: none">• rest• areas• fourth• worth• 60• concrete
---	---

AIR POLLUTION SURVEY

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Write five GOOD questions about air pollution 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.

AIR POLLUTION 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 'air'?
3. What is the air quality like where you live?
4. What problems does air pollution cause?
5. What causes air pollution?
6. What do you do that contributes to air pollution?
7. How would society change if people became less intelligent?
8. How good are you at arithmetic and languages?
9. How worried are you about air pollution?
10. How intelligent are you?

Air pollution damages intelligence, says study – 1st September, 2018
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AIR POLLUTION 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 'pollution'?
13. What do you think about what you read?
14. Would you move house to avoid air pollution?
15. Do we need to rethink the need for cities?
16. Will air pollution get better or worse?
17. What is your government doing about air pollution?
18. Should people be able to sue polluters?
19. What 'concrete measures' can governments take to cut air pollution?
20. What questions would you like to ask the researchers?

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 <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have (1) _____ that air pollution may be responsible for a significant reduction in intelligence. Research conducted for the World Health Organization (WHO) in China showed that air pollution was responsible for notable falls (2) _____ student test scores for languages and arithmetic. The Chinese study is called, "The impact of exposure to air pollution on (3) _____ performance". It was published in a journal called, "Proceedings of the National Academy of Sciences". The study took (4) _____ over a period of four years. Researchers analyzed verbal and arithmetic tests taken (5) _____ 20,000 people of all ages. They said: "Polluted air may impede cognitive ability (6) _____ people become older."

Researchers say their study is a warning to the (7) _____ of the world, especially to those who live in cities. The WHO says over 91 per cent of the world population live in areas with (8) _____ air. Air pollution is currently the fourth highest cause of deaths worldwide. The researchers discovered that the (9) _____ people were exposed to polluted air, the greater was the damage (10) _____ their intelligence. They equated the impact of air pollution to losing a year's worth of education. For those aged over 60, this could be the equivalent (11) _____ several years of lost education. Researcher Dr Xi Chen warned: "There is no shortcut to (12) _____ this issue. Governments really need to take concrete measures to reduce air pollution."

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

- | | | | | |
|-----|----------------|----------------|---------------|---------------|
| 1. | (a) revelation | (b) revealed | (c) revealing | (d) reveal |
| 2. | (a) on | (b) in | (c) at | (d) by |
| 3. | (a) dynamic | (b) predictive | (c) implicit | (d) cognitive |
| 4. | (a) location | (b) place | (c) site | (d) area |
| 5. | (a) of | (b) by | (c) as | (d) on |
| 6. | (a) has | (b) is | (c) as | (d) was |
| 7. | (a) best | (b) lest | (c) rest | (d) west |
| 8. | (a) taxing | (b) pristine | (c) toxic | (d) hydrated |
| 9. | (a) longing | (b) lengthy | (c) long | (d) longer |
| 10. | (a) at | (b) by | (c) of | (d) to |
| 11. | (a) of | (b) at | (c) on | (d) as |
| 12. | (a) solution | (b) suave | (c) solve | (d) shave |

SPELLING

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Paragraph 1

1. Scientists have edalvree that
2. a tisniiacnfg reduction in intelligence
3. scores for languages and ihicaemrtt
4. oigitecve performance
5. published in a orualnj
6. dalyenza verbal tests

Paragraph 2

7. slcpiyleae to those who live in cities
8. currently the fourth highest usaec
9. They eqaeutd the impact of air pollution
10. the qvulieaten of several years
11. There is no tucorsht to solve this
12. take ctceeorn measures

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Number these lines in the correct order.

- () responsible for notable falls in student test scores for languages and arithmetic. The Chinese study is
- () people of all ages. They said: "Polluted air may impede cognitive ability as people become older."
- (**1**) Scientists have revealed that air pollution may be responsible for a significant reduction
- () of four years. Researchers analyzed verbal and arithmetic tests taken by 20,000
- () equivalent of several years of lost education. Researcher Dr Xi Chen warned: "There is no
- () to polluted air, the greater was the damage to their intelligence. They equated the impact of air pollution to
- () losing a year's worth of education. For those aged over 60, this could be the
- () journal called, "Proceedings of the National Academy of Sciences". The study took place over a period
- () called, "The impact of exposure to air pollution on cognitive performance". It was published in a
- () highest cause of deaths worldwide. The researchers discovered that the longer people were exposed
- () Researchers say their study is a warning to the rest of the world, especially to those who live
- () in intelligence. Research conducted for the World Health Organization (WHO) in China showed that air pollution was
- () shortcut to solve this issue. Governments really need to take concrete measures to reduce air pollution."
- () in cities. The WHO says over 91 per cent of the world population live in areas with toxic air. Air pollution is currently the fourth

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

1. responsible for significant a may Pollution reduction . be
2. falls student test Responsible for notable in scores .
3. to air impact The of exposure pollution .
4. four place a period Took over of years .
5. older . become cognitive ability Impede people as
6. world . rest the A to warning of the
7. currently highest cause . fourth the is pollution Air
8. polluted to people longer The air . exposed were
9. years The education . several of equivalent of lost
10. pollution . to reduce Take concrete air measures

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have revealed that air pollution may be responsible for a significant *redaction / reduction* in intelligence. Research conducted for the World Health Organization (WHO) in China *showing / showed* that air pollution was responsible for notable *fails / falls* in student test scores for languages and arithmetic. The Chinese study is called, "The *compact / impact* of exposure to air pollution *on / in* cognitive performance". It was published *in / on* a journal called, "Proceedings of the National Academy of Sciences". The study took place *under / over* a period of four years. Researchers *analyzed / analysis* verbal and arithmetic tests taken by 20,000 people *off / of* all ages. They said: "Polluted air may impede cognitive ability as people become *older / olden*."

Researchers say their study is a *waning / warning* to the rest of the world, especially to *those / them* who live in cities. The WHO says over 91 per cent of the world population live in *area / areas* with toxic air. Air pollution is currently the *fourth / forth* highest cause of deaths worldwide. The researchers *discovered / discovery* that the longer people were *exposed / exposure* to polluted air, the greater was the damage to their intelligence. They equated the impact of air pollution to *losing / lost* a year's worth of education. For those *aged / ageing* over 60, this could be the equivalent of several years of lost *educative / education*. Researcher Dr Xi Chen warned: "There is no shortcut to solve this issue. Governments really need to take *concrete / cement* measures to reduce air pollution."

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 <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

S c__ n t_s t s h_v_ r_v__ l_d t h_t __ r p_l l_t__ n
m_y b_ r_s p_n s_b l_ f_r _ s_g n_f_c_n t r_d_c t__ n
_n _n t_l l_g_n c_. R_s__ r c h c_n d_c t_d f_r t h_
W_r l d H__ l t h O_r g_n_z_t__ n (W H O) _n C h_n_
s h_w_d t h_t __ r p_l l_t__ n w_s r_s p_n s_b l_ f_r
n_t_b l_ f_l l s _n s_t_d_n t t_s t s c_r_s f_r l_n
g__ g_s _n d _r_t h m_t_c . T h_ C h_n_s_ s_t_d y _s
c_l l_d , " T h_ _m p_c t _f _x p_s_r_ t__ r p_l l_t__
n _n c_g n_t_v_ p_r f_r m_n c_". I t w_s p_b l_s h_d
_n _ j__ r n_l c_l l_d , " P_r_c__ d_n g_s _f t h_
N_t__ n_l A_c_d_m_y _f S c__ n c_s ". T h_ s_t_d y
t__ k p_l_c_ _v_r _ p_r__ d _f f__ r y__ r s . R_s__
r c h_r s _n_l y z_d v_r b_l _n d _r_t h m_t_c t_s t s
t_k_n b y 2 0 , 0 0 0 p__ p_l_ f_l l _g_s . T h_y
s__ d : " P_l l_t_d __ r m_y _m p_d_ c_g n_t_v_ _b_l t
y _s p__ p_l_ b_c_m_ _l d_r . "

R_s__ r c h_r s s_y t h__ r s_t_d y _s _ w_r n_n g t_
t h_ r_s t _f t h_ w_r l d , _s p_c__ l l y t_ t h_s_ w
h_ l_v_ _n c_t__ s . T h_ W H O s_y s _v_r 9 1 p_r
c_n t _f t h_ w_r l d p_p_l_t__ n l_v_ _n _r__ s w_t
h t_x_c __ r . A_r p_l l_t__ n _s c_r r_r n_t l y t h_
f__ r t h h_g h_s t c__ s _f d__ t h_s w_r l d w_d_ .
T h_ r_s__ r c h_r s d_s c_v_r_d t h_t t h_ l_n g_r
p__ p_l_ w_r_ _x p_s_d t_ p_l l_t_d __ r , t h_ g_r__
t_r w_s t h_ d_m_g_ t_ t h__ r _n t_l l_g_n c_ . T h_y
_q__ t_d t h_ _m p_c t _f __ r p_l l_t__ n t_ l_s_n g
_ y__ r ' s w_r t h _f _d_c t__ n . F_r t h_s _g_d
_v_r 6 0 , t h_s c__ l d b_ t h_ _q__ v_l_n t _f
s_v_r_l y__ r s _f l_s t _d_c t__ n . R_s__ r c h_r D
r X_ C h_n w_r n_d : " T h_r_ _s n_ s h_r t_c t t_
s_l v_ t h_s _s s__ . G_v_r n m_n t s r__ l l y n__ d
t_ t_k_ c_n c_r_t m__ s_r_s t_ r_d_c__ r p_l l_t__
n . "

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

scientists have revealed that air pollution may be responsible for a significant reduction in intelligence research conducted for the world health organization who in china showed that air pollution was responsible for notable falls in student test scores for languages and arithmetic the chinese study is called the impact of exposure to air pollution on cognitive performance it was published in a journal called proceedings of the national academy of sciences the study took place over a period of four years researchers analyzed verbal and arithmetic tests taken by 20000 people of all ages they said polluted air may impede cognitive ability as people become older

researchers say their study is a warning to the rest of the world especially to those who live in cities the who says over 91 per cent of the world population live in areas with toxic air air pollution is currently the fourth highest cause of deaths worldwide the researchers discovered that the longer people were exposed to polluted air the greater was the damage to their intelligence they equated the impact of air pollution to losing a years worth of education for those aged over 60 this could be the equivalent of several years of lost education researcher dr xi chen warned there is no shortcut to solve this issue governments really need to take concrete measures to reduce air pollution"

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1809/180901-air-pollution.html>

Scientists have revealed that air pollution may be responsible for a significant reduction in intelligence. Research conducted for the World Health Organization (WHO) in China showed that air pollution was responsible for notable falls in student test scores for languages and arithmetic. The Chinese study is called, "The impact of exposure to air pollution on cognitive performance". It was published in a journal called, "Proceedings of the National Academy of Sciences". The study took place over a period of four years. Researchers analyzed verbal and arithmetic tests taken by 20,000 people of all ages. They said: "Polluted air may impede cognitive ability as people become older." Researchers say their study is a warning to the rest of the world, especially to those who live in cities. The WHO says over 91 percent of the world population live in areas with toxic air. Air pollution is currently the fourth highest cause of death worldwide. The researchers discovered that the longer people were exposed to polluted air, the greater was the damage to their intelligence. They equated the impact of air pollution to losing a year's worth of education. For those aged over 60, this could be the equivalent of several years of lost education. Researcher Dr Xi Chen warned: "There is no shortcut to solve this issue. Governments really need to take concrete measures to reduce air pollution."

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. AIR POLLUTION: Make a poster about air pollution. Show your work to your classmates in the next lesson. Did you all have similar things?

4. FOSSIL FUELS: Write a magazine article about ending the use of fossil fuels within the next decade. 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 air pollution. Ask him/her three questions about it. Give him/her three of your ideas on how to reduce air pollution. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

- | | |
|----------------|--------------|
| 1. revealed | a. shown |
| 2. significant | b. serious |
| 3. impact | c. effect |
| 4. period | d. timeframe |
| 5. impede | e. hinder |
| 6. warning | f. caution |
| 7. toxic | g. poisonous |
| 8. published | h. issued |
| 9. solve | i. work out |
| 10. reduce | j. lessen |

COMPREHENSION QUESTIONS (p.9)

- China
- Languages and arithmetic
- In a journal
- Four years
- All ages
- Over 91%
- Air pollution
- One year's worth of education
- The over-60s
- Concrete measures

WORDS IN THE RIGHT ORDER (p.20)

- Pollution may be responsible for a significant reduction.
- Responsible for notable falls in student test scores.
- The impact of exposure to air pollution.
- Took place over a period of four years.
- Impede cognitive ability as people become older.
- A warning to the rest of the world.
- Air pollution is currently the fourth highest cause.
- The longer people were exposed to polluted air.
- The equivalent of several years of lost education.
- Take concrete measures to reduce air pollution.

MULTIPLE CHOICE - QUIZ (p.10)

1. a 2. c 3. d 4. b 5. a 6. d 7. c 8. b 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 ;-)