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Level 6

Hotter weather lowers exam results

1st June, 2018

<https://breakingnewsenglish.com/1806/180601-exam-results.html>

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

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THE ARTICLE

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Hotter weather leads to lower exam results, according to a new study from Harvard University, the University of California and Georgia State University. What's more, hot weather may reduce learning in both the short term and long term. Researchers reported that hot weather on test days and higher than average temperatures throughout the school year resulted in poorer grades. The study is the first major research into the effect of heat on students in the USA. Researchers analyzed how test scores from 10 million American students were impacted by the weather. Their findings showed that an average temperature increase of just 0.55°C over one year resulted in a 1 per cent decrease in learning.

The research is in a paper called "Heat and Learning" and was published last month by the USA's National Bureau of Economic Research. One of the more concerning conclusions contained in the study is that global warming may affect learning and the income-earning potential of students around the world. The researchers predicted that if global temperatures continued to rise, the average American student could lose \$25,000 in income over their lifetime because of lower exam results. Using air conditioning in classrooms could circumvent this. The researchers also found that hotter weather was, "particularly damaging...for low income and minority students" across the USA.

Sources: <https://www.thenational.ae/uae/education/hot-weather-lowers-exam-results-study-shows-1.735280>
<http://www.bbc.com/news/business-44288982>
<http://www.nber.org/papers/w24639>

WARM-UPS

1. EXAM RESULTS: Students walk around the class and talk to other students about exam results. 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?

hotter weather / exam results / long term / average / temperatures / students / heat / research / global warming / income / potential / lifetime / air conditioning / minority

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

3. HEAT: Students A **strongly** believe students should learn how to study in the heat; Students B **strongly** believe this is unnecessary. Change partners again and talk about your conversations.

4. WEATHER: How does weather affect these things? Complete this table with your partner(s). Change partners often and share what you wrote.

	30°C+ Heat	Freezing Cold	Non-stop Rain	Warm Sunshine
Studying				
Mood				
Weekends				
Hobbies				
Shopping				
Trips				

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. EXAM RESULTS: Rank these with your partner. Put the things that help exam results most at the top. Change partners often and share your rankings.

- air conditioning
- good teacher
- hard work
- sleep
- preparation
- practice-test papers
- exercise
- lucky charms

VOCABULARY MATCHING

Paragraph 1

- | | |
|-----------------|--|
| 1. according to | a. Important, serious, or significant. |
| 2. throughout | b. Ordinary, standard, normal, typical... |
| 3. grades | c. This is what other people said or wrote about. |
| 4. major | d. A score that shows the quality of a student's work, essay, test, etc. |
| 5. effect | e. In every part of. |
| 6. impacted | f. A change that is a result or consequence of an action or other cause. |
| 7. average | g. Strongly affected or changed by something. |

Paragraph 2

- | | |
|-----------------|---|
| 8. paper | h. Print an essay, report, poem, etc. in a book or journal so as to make it generally known. |
| 9. published | i. On the subject of or in connection with; about. |
| 10. concerning | j. Overcome a problem or difficulty. |
| 11. conclusions | k. An essay or report, especially one read at an academic lecture or seminar or published in an academic journal. |
| 12. potential | l. A relatively small group of people, especially one commonly discriminated against because of race, religion, language, or political opinion. |
| 13. circumvent | m. Having or showing the capacity to become or develop into something in the future. |
| 14. minority | n. Judgments, opinions or decisions reached by thinking, research and reasoning. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

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

- a. Three US universities took part in the new study into exam results. **T / F**
- b. Hot weather can affect studying in the short and long term. **T / F**
- c. Hot weather on test days had no impact on test scores. **T / F**
- d. Researchers looked at the test results of ten million students in the US. **T / F**
- e. The research paper was called "Heat and Exam Success". **T / F**
- f. Global warming may affect students' later income when working. **T / F**
- g. The use of air conditioning would not help students do better in exams. **T / F**
- h. Hotter weather was particularly damaging for rich and poor students. **T / F**

2. SYNONYM MATCH:

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

- | | |
|-------------------------|---------------------|
| 1. leads to | a. for the whole of |
| 2. What's more | b. avoid |
| 3. throughout | c. reduction |
| 4. major | d. worrying |
| 5. decrease | e. big |
| 6. concerning | f. prospects |
| 7. predicted | g. results in |
| 8. potential | h. especially |
| 9. circumvent | i. forecast |
| 10. particularly | j. In addition |

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

- | | |
|--|-----------------------------|
| 1. Hotter weather leads to lower exam results, | a. of heat on students |
| 2. higher than average | b. and minority students |
| 3. the first major research into the effect | c. 0.55°C over one year |
| 4. American students were impacted | d. contained in the study |
| 5. an average temperature increase of just | e. temperatures |
| 6. published last | f. potential of students |
| 7. One of the more concerning conclusions | g. according to a new study |
| 8. affect learning and the income-earning | h. their lifetime |
| 9. lose \$25,000 in income over | i. by the weather |
| 10. particularly damaging for low income | j. month |

GAP FILL

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Hotter weather leads to lower exam results, (1) _____ to a new study from Harvard University, the University of California and Georgia State University. What's (2) _____, hot weather may reduce learning in both the short term and long term. Researchers reported that hot weather on test days and higher than (3) _____ temperatures (4) _____ the school year resulted in poorer grades. The study is the first major research into the (5) _____ of heat on students in the USA. Researchers analyzed how test scores from 10 million American students were (6) _____ by the weather. Their (7) _____ showed that an average temperature increase of just 0.55°C over one year resulted in a 1 per cent (8) _____ in learning.

average
impacted
decrease
according
throughout
findings
more
effect

The research is in a paper called "Heat and Learning" and was (9) _____ last month by the USA's National Bureau of Economic Research. One of the more (10) _____ conclusions contained in the study is that global warming may affect learning and the income-earning (11) _____ of students around the world. The researchers (12) _____ that if global temperatures continued to rise, the average American student could lose \$25,000 in income over their (13) _____ because of lower exam results. Using air conditioning in classrooms could (14) _____ this. The researchers also found that hotter weather was, "(15) _____ damaging...for low income and (16) _____ students" across the USA.

circumvent
concerning
predicted
minority
published
particularly
lifetime
potential

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

- 1) Hotter weather leads to lower exam results, _____ new study
 - a. accordance to a
 - b. accorded to a
 - c. accordion to a
 - d. according to a
- 2) What's more, hot weather may reduce learning in both the short term _____
 - a. and longing time
 - b. and longs term
 - c. and long term
 - d. and longs time
- 3) higher than average temperatures _____ year
 - a. though out the school
 - b. thought out the school
 - c. throughout the school
 - d. thorough out the school
- 4) analyzed how test scores from 10 million American students were _____ weather
 - a. impacted by the
 - b. impact it by the
 - c. impact did by the
 - d. in pact it by the
- 5) temperature increase of just 0.55°C over one year _____ 1 per cent decrease
 - a. resulted at a
 - b. resulted to a
 - c. resulted on a
 - d. resulted in a
- 6) concerning conclusions contained in the study is that global warming _____
 - a. may affect learning
 - b. may effect learning
 - c. may infect learning
 - d. may reflect learning
- 7) if global temperatures continued to rise, the average American _____
 - a. student could loose
 - b. student could lost
 - c. student could lose
 - d. student could loser
- 8) lose \$25,000 in income over their lifetime because of _____
 - a. lowered exam results
 - b. lower exam results
 - c. lowering exam results
 - d. lowers exam results
- 9) Using air conditioning in classrooms could _____
 - a. circle vent this
 - b. circa vent this
 - c. circumvent this
 - d. circumstance this
- 10) hotter weather was, "particularly damaging...for low income _____ students"
 - a. hand minority
 - b. band minority
 - c. end minority
 - d. and minority

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Hotter weather (1) _____ exam results, according to a new study from Harvard University, the University of California and Georgia State University. What's more, hot weather (2) _____ in both the short term and long term. Researchers reported that hot weather on test days (3) _____ average temperatures throughout the school year resulted in poorer grades. The study is (4) _____ research into the effect of heat on students in the USA. Researchers analyzed how (5) _____ 10 million American students were impacted by the weather. Their findings showed that an average temperature increase of just 0.55°C over one (6) _____ a 1 per cent decrease in learning.

The research is in (7) _____ "Heat and Learning" and was published last month by the USA's National Bureau of Economic Research. One of the more concerning conclusions contained (8) _____ is that global warming may affect learning and the income-earning potential of students around the world. The researchers (9) _____ global temperatures continued to rise, the average American student could lose \$25,000 in income (10) _____ because of lower exam results. Using air conditioning in classrooms could circumvent this. The researchers also found (11) _____ was, "particularly damaging...for low income (12) _____" across the USA.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

1. How many universities took part in the research?
2. What kind of temperatures during the school year affected exam results?
3. What did researchers study the effect of on students?
4. How many students' test scores did the researchers look at?
5. How much of a temperature rise caused a 1% decrease in learning?
6. What is the name of the research paper?
7. What other thing did the researchers say global warming might affect?
8. How much money could the average American student lose?
9. What could help avoid falling exam scores?
10. Who is hotter weather particularly damaging for?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

- 1) How many universities took part in the research?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
- 2) What kind of temperatures during the school year affected exam results?
 - a) varying
 - b) boiling
 - c) extreme
 - d) higher than average
- 3) What did researchers study the effect of on students?
 - a) heat
 - b) lack of sleep
 - c) UV-rays
 - d) stress
- 4) How many students' test scores did the researchers look at?
 - a) 100,000,000
 - b) 100,000
 - c) 10,000,000
 - d) 1,000,000
- 5) How much of a temperature rise caused a 1% decrease in learning?
 - a) 0.45°C
 - b) 0.55°C
 - c) 0.85°C
 - d) 0.35°C
- 6) What is the name of the research paper?
 - a) Heat and Learning
 - b) Heat and Stress
 - c) Heat and Exams
 - d) Heat and Performance
- 7) What other thing did the researchers say global warming might affect?
 - a) stress
 - b) weight and obesity levels
 - c) income-earning potential
 - d) relationships
- 8) How much money could the average American student lose?
 - a) \$25,000
 - b) \$35,000
 - c) \$85,000
 - d) \$550,000
- 9) What could help avoid falling exam scores?
 - a) air conditioning
 - b) sleep
 - c) water
 - d) better teachers
- 10) Who is hotter weather particularly damaging for?
 - a) schools and businesses
 - b) students who don't eat
 - c) sleepy and overweight students
 - d) low income and minority students

ROLE PLAY

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Role A – Air Conditioning

You think air conditioning is the best thing to help with exam results. 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): a good teacher, sleep or a lucky charm.

Role B – Good Teacher

You think a good teacher is the best thing to help with exam results. 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): air conditioning, sleep or a lucky charm.

Role C – Sleep

You think sleep is the best thing to help with exam results. 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): a good teacher, air conditioning or a lucky charm.

Role D – Lucky Charm

You think a lucky charm is the best thing to help with exam results. 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): a good teacher, sleep or air conditioning.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

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

exam	results
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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">• lower• reduce• days• major• effect• just	<ul style="list-style-type: none">• month• contained• potential• lose• air• across
---	---

EXAM RESULTS SURVEY

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Write five GOOD questions about exam results 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.

EXAM RESULTS 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 'exam'?
3. What do you think of exams?
4. How good are you at taking exams?
5. Are exams the best way to find someone's ability?
6. What's the worst exam you've ever taken?
7. How does the heat affect your studying?
8. What does hot weather make it more difficult for you to do?
9. What advice do you have for studying in hot weather?
10. Do you prefer the heat or the cold?

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EXAM RESULTS 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 'result'?
13. What do you think about what you read?
14. How might global warming affect your income potential?
15. Should all schools have air conditioning?
16. Do people in cooler countries do better at exams?
17. What advice do you have for getting good marks in exams?
18. What exam results made you happiest?
19. Why would the heat be more damaging for low-income students?
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/1806/180601-exam-results.html>

Hotter weather leads to lower exam results, (1) _____ to a new study from Harvard University, the University of California and Georgia State University. What's (2) _____, hot weather may reduce learning in both the short term and long term. Researchers reported that hot weather on test days and higher than (3) _____ temperatures throughout the school year resulted in poorer grades. The study is the first major research into the (4) _____ of heat on students in the USA. Researchers analyzed how test scores from 10 million American students were impacted (5) _____ the weather. Their findings showed that an average temperature increase of just 0.55°C over one year resulted (6) _____ a 1 per cent decrease in learning.

The research is in a paper called "Heat and Learning" and was (7) _____ last month by the USA's National Bureau of Economic Research. One of the more concerning conclusions (8) _____ in the study is that global warming may affect learning and the income-earning (9) _____ of students around the world. The researchers predicted that if global temperatures continued to (10) _____, the average American student could lose \$25,000 in income over their lifetime because of lower exam results. Using air conditioning in classrooms could (11) _____ this. The researchers also found that hotter weather was, "particularly damaging...for low income and (12) _____ students" across the USA.

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

- | | | | | |
|-----|--------------------|---------------|-----------------|-------------------|
| 1. | (a) accordance | (b) accord | (c) accordion | (d) according |
| 2. | (a) most | (b) many | (c) much | (d) more |
| 3. | (a) averaged | (b) average | (c) averages | (d) averaging |
| 4. | (a) affect | (b) infect | (c) effect | (d) reflect |
| 5. | (a) to | (b) of | (c) by | (d) at |
| 6. | (a) in | (b) at | (c) to | (d) by |
| 7. | (a) publishing | (b) published | (c) publication | (d) publish |
| 8. | (a) contained | (b) container | (c) containing | (d) contain |
| 9. | (a) potentate | (b) potential | (c) potency | (d) potion |
| 10. | (a) riser | (b) raise | (c) rise | (d) risen |
| 11. | (a) circumlocution | (b) circa | (c) circumvent | (d) circumference |
| 12. | (a) genius | (b) nebulous | (c) pejorative | (d) minority |

SPELLING

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Paragraph 1

1. ccoiaqdnr to a new study
2. hot weather may rdeuce learning
3. higher than aeevarg temperatures
4. hugotrothu the school year
5. the efctef of heat on students
6. Researchers adylaezn how test scores...

Paragraph 2

7. inucsoonscl contained in the study
8. the income-earning tpaetnloi
9. The researchers rdeetpcdi that
10. could ucntirvmce this
11. calurritpya damaging
12. irmynoit students

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Number these lines in the correct order.

- () of Economic Research. One of the more concerning conclusions contained in the study is that global warming may
- () research into the effect of heat on students in the USA. Researchers analyzed how test scores from 10 million American students were
- () impacted by the weather. Their findings showed that an average temperature increase
- () affect learning and the income-earning potential of students around the world. The researchers predicted that if global
- (**1**) Hotter weather leads to lower exam results, according to a new study from Harvard University, the University
- () of California and Georgia State University. What's more, hot weather may reduce learning in both the short term
- () The research is in a paper called "Heat and Learning" and was published last month by the USA's National Bureau
- () temperatures throughout the school year, resulted in poorer grades. The study is the first major
- () of just 0.55°C over one year resulted in a 1 per cent decrease in learning.
- () and long term. Researchers reported that hot weather on test days, and higher than average
- () temperatures continued to rise, the average American student could lose \$25,000 in
- () could circumvent this. The researchers also found that hotter weather was, "particularly
- () income over their lifetime because of lower exam results. Using air conditioning in classrooms
- () damaging...for low income and minority students" across the USA.

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

1. new University . from to a According Harvard study
2. the school than average year . throughout temperatures Higher
3. of heat . The first effect research into the
4. by weather . students impacted million Ten American were
5. of increase temperature average 0 .55°C . just An
6. conclusions concerning more the contained study . in The
7. the income-earning around students potential of world . The
8. lower because results . of Lose exam \$25,000
9. classrooms conditioning circumvent Using in air could this .
10. found damaging . hotter that weather was particularly Researchers

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Hotter weather *leads / leaden* to lower exam results, according to a new study from Harvard University, the University of California and Georgia State University. What's *most / more*, hot weather may *deduce / reduce* learning in both the short term and long term. Researchers reported that hot weather on test days and *higher / heightened* than average temperatures throughout the school year resulted *on / in* poorer grades. The study is the first *majority / major* research into the effect of *heat / hot* on students in the USA. Researchers analyzed *who / how* test scores from 10 million American students were *impacted / compacted* by the weather. Their *findings / foundries* showed that an average temperature increase *for / of* just 0.55°C over one year resulted in a 1 per cent decrease in learning.

The research is in a paper called "Heat and Learning" and was *publishing / published* last month by the USA's National Bureau of Economic Research. One of the more *concern / concerning* conclusions contained in the study is that global warming may *effect / affect* learning and the income-earning potential of students *about / around* the world. The researchers predicted that if global temperatures continued to *rise / raise*, the average American student could lose \$25,000 *in / on* income over their lifetime because *for / of* lower exam results. Using air *conditioning / conditioner* in classrooms could circumvent this. The researchers also found that hotter weather was, "*particularly damage* damaging...for low income and *minority / majority* students" across the USA.

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/1806/180601-exam-results.html>

H_t t_r w__ t h_r l__ d s t_ l_w_r _x_m r_s_l t s ,
_c c_r d_n g t__ n_w s t_d y f_r_m H_r v_r d U
n_v_r s_t y , t h_ U n_v_r s_t y _f C_l_f_r n__ _n d
G__ r g__ S t_t_ U n_v_r s_t y . W h_t 's m_r_ , h_t
w__ t h_r m_y r_d_c_ l__ r n_n g _n b_t h t h_ s h_r
t t_r m _n d l_n g t_r m . R_s__ r c h_r s r_p_r t_d
t h_t h_t w__ t h_r _n t_s t d_y s _n d h_g h_r t
h_n _v_r_g_ t_m p_r_t_r_s t h_r__ g h__ t t h_ s c h__
l_ y__ r r_s_l t_d _n p__ r_r g_r_d_s . T h_ s t_d y
s t h f_r s t m_j_r r_s__ r c h _n t_ t h_ _f f_c t _f
h__ t _n s t_d_n t s _n t h_ U S A . R_s__ r c h_r s
_n_l y z_d h_w t_s t s c_r_s f_r_m 10 m_l_l__ n A
m_r_c_n s t_d_n t s w_r_ _m p_c t_d b y t h_ w__ t
h_r . T h__ r f_n d_n g s s h_w_d t h_t _n _v_r_g_
t_m p_r_t_r_ _n c_r__ s_ _f j_s t 0 . 5 5 ° C _v_r _n_
y__ r r_s_l t_d _n _ 1 p_r c_n t d_c_r__ s_ _n l__
r n_n g .

T h_ r_s__ r c h _s _n _ p_p_r c_l_l_d " H__ t _n d
L__ r n_n g " _n d w_s p_b_l_s h_d l_s t m_n t h b y
t h_ U S A 's N_t__ n_l B_r___ _f E c_n_m_c R_s__ r
c h . O n_ _f t h_ m_r_ c_n c_r n_n g c_n c_l_s__ n s
c_n t__ n_d _n t h_ s t_d y _s t h_t g_l_b_l w_r m_n
g m_y _f f_c t l__ n_n g _n d t h_ _n c_m_ _r n_n g
p_t_n t__ l _f s t_d_n t s _r__ n d t h_ w_r l_d . T h_
r_s__ r c h_r s p_r_d_c t_d t h_t _f g_l_b_l t_m
p_r_t_r_s c_n t_n__ d t_r_s_ , t h_ _v_r_g_ A m_r_c_n
s t_d_n t c__ l_d l_s_ \$ 2 5 , 0 0 0 _n _n c_m_ _v_r t
h__ r l_f_t_m_ b_c__ s_ _f l_w_r _x_m r_s_l t s . U
s_n g __ r c_n d_t__ n_n g _n c_l_s_s_r__ m_s c__ l_d
c_r c_m v_n t t h_s . T h_ r_s__ r c h_r s _l_s_ f__ n d
t h_t h_t t_r w__ t h_r w_s , " p_r t_c_l_r l y
d_m_g_n g . . . f_r l_w _n c_m_ _n d m_n_r_t y s t_d_n
t s " _c_r_s_s t h_ U S A .

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

hotter weather leads to lower exam results according to a new study from harvard university the university of california and georgia state university whats more hot weather may reduce learning in both the short term and long term researchers reported that hot weather on test days and higher than average temperatures throughout the school year resulted in poorer grades the study is the first major research into the effect of heat on students in the usa researchers analyzed how test scores from 10 million american students were impacted by the weather their findings showed that an average temperature increase of just 0.55c over one year resulted in a 1 per cent decrease in learning

the research is in a paper called heat and learning and was published last month by the usas national bureau of economic research one of the more concerning conclusions contained in the study is that global warming may affect learning and the income earning potential of students around the world the researchers predicted that if global temperatures continued to rise the average american student could lose 25000 in income over their lifetime because of lower exam results using air conditioning in classrooms could circumvent this the researchers also found that hotter weather was particularly damaging for low income and minority students across the usa

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1806/180601-exam-results.html>

Hotter weather leads to lower exam results, according to a new study from Harvard University, the University of California and Georgia State University. What's more, hot weather may reduce learning in both the short term and long term. Researchers reported that hot weather on test days and higher than average temperatures throughout the school year result in poorer grades. The study is the first major research into the effect of heat on students in the USA. Researchers analyzed how test scores from 10 million American students were impacted by the weather. Their findings showed that an average temperature increase of just 0.55°C over one year resulted in a one percent decrease in learning. The research is in a paper called "Heat and Learning" and was published last month by the USA's National Bureau of Economic Research. One of the more concerning conclusions contained in the study is that global warming may affect learning and their income-earning potential of students around the world. The researchers predicted that if global temperatures continued to rise, the average American student could lose \$25,000 in income over their lifetime because of lower exam results. Using air conditioning in classrooms could circumvent this. The researchers also found that hotter weather was, "particularly damaging... for low income and minority students" across the USA.

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. EXAM RESULTS: Make a poster about exam results. Show your work to your classmates in the next lesson. Did you all have similar things?

4. HOT TEMPERATURE TRAINING: Write a magazine article about students being given hot temperature training so they can study in hot weather. 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 exam results. Ask him/her three questions about them. Give him/her three of your ideas on how students can study better in hot weather. 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 F d T e F f T g F h F

SYNONYM MATCH (p.5)

- | | |
|------------------|---------------------|
| 1. leads to | a. results in |
| 2. What's more | b. In addition |
| 3. throughout | c. for the whole of |
| 4. major | d. big |
| 5. decrease | e. reduction |
| 6. concerning | f. worrying |
| 7. predicted | g. forecast |
| 8. potential | h. prospects |
| 9. circumvent | i. avoid |
| 10. particularly | j. especially |

COMPREHENSION QUESTIONS (p.9)

- Three
- Higher than average temperatures
- Heat
- Ten million
- 0.55°C
- Heat and Learning
- The income-earning potential of students
- \$25,000
- Air conditioning
- Low income and minority students

WORDS IN THE RIGHT ORDER (p.20)

- According to a new study from Harvard University.
- Higher than average temperatures throughout the school year.
- The first research into the effect of heat.
- Ten million American students were impacted by weather.
- An average temperature increase of just 0.55°C.
- The more concerning conclusions contained in the study.
- The income-earning potential of students around the world.
- Lose \$25,000 because of lower exam results.
- Using air conditioning in classrooms could circumvent this.
- Researchers found that hotter weather was particularly damaging.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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