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Level 4

Bacteria-filled concrete to end holes in roads

5th December, 2014

<http://www.breakingnewsenglish.com/1412/141205-potholes-4.html>

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Please try the harder Level 5 and the 26–page Level 6 (harder).

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THE READING

From <http://www.breakingnewsenglish.com/1412/141205-potholes-4.html>

There may soon be no more potholes and cracks in roads. Scientists have thought of an innovative solution to fixing holes in roads and highways. They have created a bacteria-filled concrete to stop cracks getting bigger. The concrete has bacteria that open when water gets into a crack. The bacteria inject limestone into the crack to repair it. This avoids more serious damage. The discovery could make roads last longer and cut costs by up to 50 per cent.

The new concrete is good for the environment. Over seven per cent of CO2 emissions come from cement production. Less cement to repair roads means less pollution. The new cement will also reduce injuries and deaths that result from potholes. Thousands of people die because drivers swerve to avoid holes in roads. There is also good news for governments. They will save money in damages to cars because of bad roads.

Sources: <http://www.telegraph.co.uk/news/uknews/road-and-rail-transport/11268310/The-end-of-potholes-UK-scientists-invent-self-healing-concrete.html>
<http://www.dailymail.co.uk/news/article-2858316/Potholes-fix-Engineers-say-self-healing-concrete-use-bacteria-stop-cracks-gaps-getting-bigger-used-future.html#ixzz3Kula2kCB>
<http://eandt.theiet.org/news/2014/dec/future-highways-arup.cfm>

MATCHING

From <http://www.breakingnewsenglish.com/1412/141205-potholes-4.html>

PARAGRAPH ONE:

- | | |
|----------------------------------|-------------------|
| 1. no more potholes and cracks | a. into the crack |
| 2. thought of an innovative | b. and highways |
| 3. fixing holes in roads | c. damage |
| 4. stop cracks getting | d. into a crack |
| 5. open when water gets | e. in roads |
| 6. The bacteria inject limestone | f. solution |
| 7. This avoids more serious | g. to 50 per cent |
| 8. cut costs by up | h. bigger |

PARAGRAPH TWO:

- | | |
|--------------------------------------|-------------------------|
| 1. good for the | a. avoid holes in roads |
| 2. CO2 | b. production |
| 3. cement | c. for governments |
| 4. Less cement to repair roads means | d. result from potholes |
| 5. injuries and deaths that | e. environment |
| 6. drivers swerve to | f. of bad roads |
| 7. good news | g. less pollution |
| 8. damages to cars because | h. emissions |

LISTEN AND FILL IN THE GAPS

From <http://www.breakingnewsenglish.com/1412/141205-potholes-4.html>

There may (1) _____ potholes and cracks in roads.

Scientists have thought of an innovative (2) _____ in

roads and highways. (3) _____ a bacteria-filled concrete to

stop cracks getting bigger. The concrete has bacteria

(4) _____ water gets into a crack. The bacteria inject

limestone into the crack to repair it. This (5) _____

damage. The discovery could make roads last longer and cut

(6) _____ 50 per cent.

The new concrete (7) _____ environment. Over seven per

cent of (8) _____ come from cement production.

(9) _____ roads means less pollution. The new cement will

also reduce (10) _____ that result from potholes.

Thousands of people die because drivers (11) _____ holes

in roads. There is also good news for governments. They

(12) _____ in damages to cars because of bad roads.

ROADS SURVEY

From <http://www.breakingnewsenglish.com/1412/141205-potholes-4.html>

Write five GOOD questions about roads 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.

WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student A: Do not show these to your speaking partner(s).

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____
- f) _____
- g) _____
- h) _____

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WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student B: Do not show these to your speaking partner(s).

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____
- f) _____
- g) _____
- h) _____

