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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).



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-healingconcrete-use-bacteria-stop-cracks-gaps-getting-bigger-used-future.html#ixzz3Kula2kCB http://eandt.**theiet**.org/news/2014/dec/future-highways-arup.cfm

MATCHING

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

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.

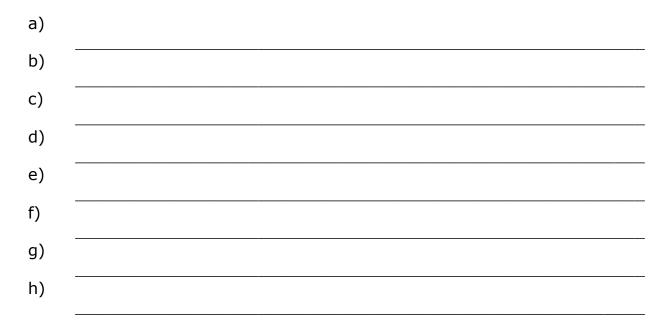
When you have finished, interview other students. Write down their answers.

	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)

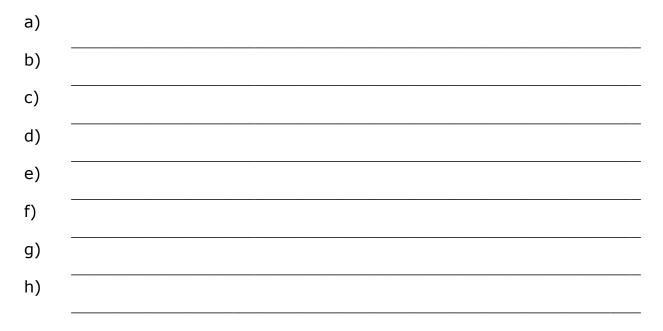
Student A: Do not show these to your speaking partner(s).



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WRITE QUESTIONS & ASK YOUR PARTNER(S)

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



FREE WRITING

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

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