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## **Level 2**

### **Scientists make self-repairing clothes**

**16th August, 2016**

<http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

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**Please try Levels 0, 1 and 3. They are (a little) harder.**

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# THE READING

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

Humans have learnt many things from nature that help us in our daily life. The latest thing is self-repairing clothing. Scientists have developed a way for cotton, linen and wool clothes to repair themselves, without the need for sewing. Scientists from the Naval Research Office and Pennsylvania State University in the USA looked at how squid can cling on to things so well. They found a protein in the teeth that cover the suckers on a squid. The protein is like the one found in the silk that spiders use to make spider webs. It is very strong and stretchy.

The new protein is now part of a coating, which is put on clothes. A rip or tear in clothes joins together in less than a minute after it is dipped in water. This could be useful for military and survival clothes. People will be safer with clothes that repair quickly and easily. A scientist spoke about the invention. He said: "The coatings are thin, less than a micron, so they wouldn't be noticed in everyday wear." He added: "Even thin, they increase the overall strength of the material. For the first time, we are making self-healing textiles."

Sources: <http://www.cnet.com/news/clothes-that-heal-themselves-through-the-power-of-squid-teeth/>  
<http://www.mnn.com/green-tech/research-innovations/blogs/how-squid-teeth-will-one-day-fix-torn-clothing>  
<https://www.engadget.com/2016/08/12/squid-protein-makes-textiles-self-healing/>

# PHRASE MATCHING

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

## PARAGRAPH ONE:

- |                            |                         |
|----------------------------|-------------------------|
| 1. Humans have learnt many | a. webs                 |
| 2. help us in              | b. for sewing           |
| 3. cotton, linen           | c. and stretchy         |
| 4. without the need        | d. on to things so well |
| 5. how squid can cling     | e. things from nature   |
| 6. the silk that spiders   | f. and wool             |
| 7. spider                  | g. our daily life       |
| 8. It is very strong       | h. use                  |

## PARAGRAPH TWO:

- |                                      |                         |
|--------------------------------------|-------------------------|
| 1. The new protein is now part       | a. and survival clothes |
| 2. joins together in                 | b. in water             |
| 3. after it is dipped                | c. are thin             |
| 4. This could be useful for military | d. less than a minute   |
| 5. clothes that repair quickly       | e. everyday wear        |
| 6. The coatings                      | f. of a coating         |
| 7. they wouldn't be noticed in       | g. strength             |
| 8. they increase the overall         | h. and easily           |

# LISTEN AND FILL IN THE GAPS

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

Humans have learnt many things from nature (1) \_\_\_\_\_ our daily life. The latest thing is self-repairing clothing. Scientists have developed (2) \_\_\_\_\_, linen and wool clothes to repair themselves, without the (3) \_\_\_\_\_. Scientists from the Naval Research Office and Pennsylvania State University in the USA looked at how squid (4) \_\_\_\_\_ things so well. They found a protein in the teeth that (5) \_\_\_\_\_ on a squid. The protein is like the one found in the silk that spiders use to make spider webs. It is very (6) \_\_\_\_\_.

The new protein is now (7) \_\_\_\_\_, which is put on clothes. A rip or tear in clothes (8) \_\_\_\_\_ less than a minute after it is dipped in water. This could be useful for military and survival clothes. People (9) \_\_\_\_\_ clothes that repair quickly and easily. A scientist spoke about the invention. He said: "The (10) \_\_\_\_\_, less than a micron, so they wouldn't be (11) \_\_\_\_\_ wear." He added: "Even thin, they increase the (12) \_\_\_\_\_ the material. For the first time, we are making self-healing textiles."

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

Humans have learnt many things from nature that help us in our daily life. The latest thing is self-repairing clothing. Scientists have developed a way for cotton, linen and wool clothes to repair themselves, without the need for sewing. Scientists from the Naval Research Office and Pennsylvania State University in the USA looked at how squid can cling onto things so well. They found a protein in the teeth that cover the suckers on a squid. The protein is like the one found in the silk that spiders use to make spider webs. It is very strong and stretchy. The new protein is now part of a coating, which is put on clothes. A rip or tear in clothes joins together in less than a minute after it is dipped in water. This could be useful for military and survival clothes. People will be safer with clothes that repair quickly and easily. A scientist spoke about the invention. He said: "The coatings are thin, less than a micron, so they wouldn't be noticed in everyday wear." He added: "Even thin, they increase the overall strength of the material. For the first time, we are making self-healing textiles."

# CLOTHES SURVEY

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-4.html>

Write five GOOD questions about clothes 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) \_\_\_\_\_

*Scientists make self-repairing clothes – 16th August, 2016*  
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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) \_\_\_\_\_

# WRITING

From <http://www.breakingnewsenglish.com/1608/160816-self-repairing-clothes-2.html>

Write about **clothes** for 10 minutes. Read and talk about your partner's paper.

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