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## Level 3

### Scientists make self-repairing clothes

16th August, 2016

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

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**Please try Levels 0, 1 and 2 (they are easier).**

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# THE ARTICLE

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

Humans have learnt many things from nature. These things have helped us in our daily life. The latest thing is self-repairing clothing. Scientists have developed a special way for clothing to repair rips and tears by itself, without the need for sewing. It works with materials such as cotton, linen and wool. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr Melik Demirel looked at how squid can cling on to things so well. The research team found a protein in the rings of teeth that cover the suckers on a squid. The protein is similar to the one found in the silk that spiders use to make spider webs. It is very strong and elastic (stretchy).

The new protein has been developed as part of a coating, which is put on clothes. When the coating is dipped in water, the area around the rip or tear joins together in less than a minute. This could help clothes last longer and save us money. It could also be useful for military and survival clothes. People like soldiers and mountaineers would be safer if they had clothes that repaired quickly and easily. Professor Demirel 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/>

# WARM-UPS

**1. CLOTHES:** Students walk around the class and talk to other students about clothes. 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?

nature / daily life / scientists / repair / clothing / cotton / wool / squid / protein / water / rip / last longer / survival / soldiers / mountaineers / invention / strength

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

**3. LAST FOREVER:** Students A **strongly** believe we should buy clothes that last forever and not keep buying new clothes; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

**4. SELF-REPAIRING:** How useful would these things be if they were self-repairing? Complete this table with your partner(s). Change partners often and share what you wrote.

	How useful?	How would this affect your life?
Punctures		
Mobile phone screens		
Headaches		
Car engines		
Windows		
Shoes		

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

**6. CLOTHING:** Rank these with your partner. Put the most important items of clothing at the top. Change partners often and share your rankings.

- T-shirt
- hat
- socks
- jeans
- gloves
- scarf
- sweater
- suit

# BEFORE READING / LISTENING

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

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

- a. The article says nature has learnt a lot from humans. **T / F**
- b. The self-repairing clothes still need to be sewn. **T / F**
- c. Scientists got the idea for self-repairing clothes from squid. **T / F**
- d. Scientists used the silk from spider webs to make the clothes. **T / F**
- e. You have to dip the torn or ripped clothes in water to repair them. **T / F**
- f. It takes 10 minutes for the clothes to repair themselves. **T / F**
- g. The self-repairing clothes will be useful for soldiers. **T / F**
- h. The self-repairing clothes will also be stronger than normal clothes. **T / F**

**2. SYNONYM MATCH:** Match the following synonyms from the article.

- |                     |               |
|---------------------|---------------|
| 1. learnt / learned | a. method     |
| 2. daily            | b. simply     |
| 3. way              | c. alike      |
| 4. repair           | d. immersed   |
| 5. similar          | e. seen       |
| 6. coating          | f. fix        |
| 7. dipped           | g. discovered |
| 8. noticed          | h. fabric     |
| 9. easily           | i. covering   |
| 10. material        | j. everyday   |

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

- |                                   |                             |
|-----------------------------------|-----------------------------|
| 1. Humans have learnt many things | a. in everyday wear         |
| 2. These things have helped       | b. longer                   |
| 3. materials such as cotton,      | c. and elastic              |
| 4. the silk that spiders          | d. would be safer           |
| 5. It is very strong              | e. us in our daily life     |
| 6. the coating is dipped          | f. strength of the material |
| 7. This could help clothes last   | g. in water                 |
| 8. soldiers and mountaineers      | h. from nature              |
| 9. they wouldn't be noticed       | i. linen and wool           |
| 10. they increase the overall     | j. use                      |

# GAP FILL

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

Humans have learnt many things from (1) \_\_\_\_\_. These things have helped us in our daily life. The latest thing is self-repairing clothing. Scientists have developed a (2) \_\_\_\_\_ way for clothing to repair rips and tears by itself, without the need for (3) \_\_\_\_\_. It works with materials such as cotton, linen and (4) \_\_\_\_\_. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr Melik Demirel looked at how (5) \_\_\_\_\_ can cling on to things so well. The research (6) \_\_\_\_\_ found a protein in the rings of teeth that cover the suckers on a squid. The (7) \_\_\_\_\_ is similar to the one found in the silk that spiders use to make spider (8) \_\_\_\_\_. It is very strong and elastic (stretchy).

*sewing*  
*squid*  
*protein*  
*nature*  
*webs*  
*wool*  
*special*  
*team*

The new protein has been developed as (9) \_\_\_\_\_ of a coating, which is put on clothes. When the coating is (10) \_\_\_\_\_ in water, the area around the rip or tear joins (11) \_\_\_\_\_ in less than a minute. This could help clothes last longer and save us money. It could also be useful for military and (12) \_\_\_\_\_ clothes. People like soldiers and mountaineers would be (13) \_\_\_\_\_ if they had clothes that repaired quickly and easily. Professor Demirel spoke about the (14) \_\_\_\_\_. 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 (15) \_\_\_\_\_ strength of the material. For the first (16) \_\_\_\_\_, we are making self-healing textiles."

*dipped*  
*invention*  
*survival*  
*time*  
*part*  
*overall*  
*together*  
*safer*

# LISTENING – Guess the answers. Listen to check.

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

- 1) These things have helped us in \_\_\_\_\_
  - a. our daily live
  - b. our day life
  - c. ours daily life
  - d. our daily life
- 2) Scientists have developed a special way for clothing to repair rips and \_\_\_\_\_
  - a. tears with itself
  - b. tears by herself
  - c. tears by itself
  - d. tears bye itself
- 3) It works with materials such as cotton, \_\_\_\_\_
  - a. linen and wool
  - b. linen and woolly
  - c. linen and woolen
  - d. linen and woo
- 4) Demirel looked at how squid can cling on \_\_\_\_\_
  - a. to things so good
  - b. to things so well
  - c. to things sew swell
  - d. to things sew well
- 5) similar to the one found in the silk that spiders use to \_\_\_\_\_
  - a. makes spider webs
  - b. made spider webs
  - c. make spider webs
  - d. making spider webs
- 6) The new protein has been developed as part \_\_\_\_\_
  - a. off a coating
  - b. for a coating
  - c. of a coating
  - d. over a coating
- 7) When the coating is dipped in water, the area around the rip or \_\_\_\_\_
  - a. tear joins together
  - b. tear joint together
  - c. tear joiner together
  - d. tear joining together
- 8) It could also be useful for military and \_\_\_\_\_
  - a. survival cloths
  - b. survival cloves
  - c. survival clothes
  - d. survival cloth
- 9) less than a micron, so they wouldn't be noticed \_\_\_\_\_
  - a. in every daily wears
  - b. in every day's wear
  - c. in everyday wear
  - d. in everyday wears
- 10) For the first time, we are making \_\_\_\_\_
  - a. self-healing textiles
  - b. self-feeling textiles
  - c. self-heeling textiles
  - d. self-failing textiles

# LISTENING – Listen and fill in the gaps

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

Humans have learnt many (1) \_\_\_\_\_. These things have helped us (2) \_\_\_\_\_. The latest thing is self-repairing clothing. Scientists have developed a special way for clothing to repair rips and tears by itself, without the (3) \_\_\_\_\_. It works with materials such as cotton, linen and wool. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr Melik Demirel looked (4) \_\_\_\_\_ clinging on to things so well. The research team found a protein in the rings of teeth that (5) \_\_\_\_\_ on a squid. The protein is similar to the one found in the silk that spiders use to (6) \_\_\_\_\_. It is very strong and elastic (stretchy).

The new protein has been developed (7) \_\_\_\_\_ coating, which is put on clothes. When the coating (8) \_\_\_\_\_ water, the area around the rip or tear joins together in less than a minute. This could help clothes (9) \_\_\_\_\_ save us money. It could also be useful for military and survival clothes. People like soldiers and mountaineers (10) \_\_\_\_\_ if they had clothes that repaired quickly and easily. Professor Demirel spoke about the invention. He said: "The (11) \_\_\_\_\_, 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. (12) \_\_\_\_\_, we are making self-healing textiles."

# COMPREHENSION QUESTIONS

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

1. What have humans learnt a lot from?
2. What is not needed for the self-repairing clothes to fix themselves?
3. What material is used for the clothes besides cotton and linen?
4. What sea creature did scientists get the idea of the clothes from?
5. What kind of silk was mentioned at the end of paragraph 1?
6. What must people dip the coating in for it to repair?
7. How long does it take for a rip or tear to join together?
8. What could the new invention save us?
9. How thin are the coatings that are put on clothes?
10. What does the coating increase in the clothes?



# MULTIPLE CHOICE - QUIZ

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

- 1) What have humans learnt a lot from?
  - a) books
  - b) nature
  - c) scientists
  - d) clothing
- 2) What is not needed for the self-repairing clothes to fix themselves?
  - a) tears
  - b) cotton
  - c) sewing
  - d) glue
- 3) What material is used for the clothes besides cotton and linen?
  - a) denim
  - b) nylon
  - c) silk
  - d) wool
- 4) What sea creature did scientists get the idea of the clothes from?
  - a) whale
  - b) squid
  - c) jelly fish
  - d) plankton
- 5) What kind of silk was mentioned at the end of paragraph 1?
  - a) spider web silk
  - b) Thai silk
  - c) synthetic silk
  - d) 100% silk
- 6) What must people dip the coating in for it to repair?
  - a) water
  - b) the sea
  - c) chemicals
  - d) a bath
- 7) How long does it take for a rip or tear to join together?
  - a) an hour or so
  - b) just seconds
  - c) a few minutes
  - d) less than a minute
- 8) What could the new invention save us?
  - a) time
  - b) headaches
  - c) money
  - d) material
- 9) How thin are the coatings that are put on clothes?
  - a) just over a micron
  - b) about a micron
  - c) exactly a micron
  - d) less than a micron
- 10) What does the coating increase in the clothes?
  - a) their cost
  - b) their strength
  - c) their price
  - d) their colour

# ROLE PLAY

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

## **Role A – T-shirts**

You think T-shirts are the most important items of clothing. Tell the others three reasons why. Tell them things that are wrong with their clothes. Also, tell the others which is the least important of these (and why): socks, jeans or suits.

## **Role B – Socks**

You think socks are the most important items of clothing. Tell the others three reasons why. Tell them things that are wrong with their clothes. Also, tell the others which is the least important of these (and why): T-shirts, jeans or suits.

## **Role C – Jeans**

You think jeans are the most important items of clothing. Tell the others three reasons why. Tell them things that are wrong with their clothes. Also, tell the others which is the least important of these (and why): socks, T-shirts or suits.

## **Role D – Suits**

You think suits are the most important items of clothing. Tell the others three reasons why. Tell them things that are wrong with their clothes. Also, tell the others which is the least important of these (and why): socks, jeans or T-shirts.

# AFTER READING / LISTENING

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

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

<b>rip</b>	<b>tear</b>
------------	-------------

- 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"><li>• learnt</li><li>• special</li><li>• sewing</li><li>• well</li><li>• cover</li><li>• silk</li></ul>	<ul style="list-style-type: none"><li>• part</li><li>• water</li><li>• money</li><li>• safer</li><li>• micron</li><li>• first</li></ul>
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# CLOTHES SURVEY

From <http://www.BreakingNewsEnglish.com/1608/160816-self-repairing-clothes.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.

# CLOTHES DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What springs to mind when you hear the word 'clothes'?
3. What do you think about what you read?
4. What's the most important thing we can learn from nature?
5. Would self-repairing clothes be useful for you?
6. What are you like at sewing?
7. What is your favourite material, and why?
8. Would you buy clothes that are self-repairing?
9. How long should clothes last for?
10. What's the oldest item of clothing you have?

*Scientists make self-repairing clothes – 16th August, 2016*  
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# CLOTHES DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. How useful are self-repairing clothes?
13. Do you prefer wearing new clothes or old clothes?
14. What else could we learn from squid?
15. Who might benefit from self-repairing clothes?
16. What new inventions would you like for clothes?
17. How popular do you think self-repairing clothes will be?
18. What do you think of self-repairing bodies?
19. What else would be good if they were self-repairing?
20. What questions would you like to ask the scientists?

## **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 <http://www.BreakingNewsEnglish.com/1608/160816-self-repairing-clothes.html>

Humans have learnt many things from nature. These things have helped (1) \_\_\_\_\_ in our daily life. The latest (2) \_\_\_\_\_ is self-repairing clothing. Scientists have developed a special way for clothing to repair rips and tears (3) \_\_\_\_\_ itself, without the need for sewing. It works with materials such as cotton, linen and wool. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr Melik Demirel looked at how squid can cling (4) \_\_\_\_\_ to things so well. The research team found a protein in the rings of teeth that (5) \_\_\_\_\_ the suckers on a squid. The protein is similar to the one found in the silk that spiders use to make spider webs. It is very (6) \_\_\_\_\_ and elastic (stretchy).

The new protein has been developed as (7) \_\_\_\_\_ of a coating, which is put on clothes. When the coating is dipped in water, the area around the rip or tear joins together in (8) \_\_\_\_\_ than a minute. This could help clothes last longer and save us money. It could also be useful for military and survival clothes. People (9) \_\_\_\_\_ soldiers and mountaineers would be safer if they had clothes that repaired quickly and easily. Professor Demirel (10) \_\_\_\_\_ about the invention. He said: "The coatings are thin, less than a micron, so they wouldn't be (11) \_\_\_\_\_ in everyday wear." He added: "Even thin, they increase the overall strength of the material. For (12) \_\_\_\_\_ first time, we are making self-healing textiles."

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

- |     |              |               |              |            |
|-----|--------------|---------------|--------------|------------|
| 1.  | (a) them     | (b) we        | (c) us       | (d) all    |
| 2.  | (a) thing    | (b) things    | (c) thingy   | (d) think  |
| 3.  | (a) by       | (b) on        | (c) of       | (d) at     |
| 4.  | (a) on       | (b) at        | (c) by       | (d) in     |
| 5.  | (a) covers   | (b) cover     | (c) covering | (d) covert |
| 6.  | (a) stronger | (b) strongest | (c) strength | (d) strong |
| 7.  | (a) parted   | (b) partner   | (c) part     | (d) party  |
| 8.  | (a) below    | (b) under     | (c) fewer    | (d) less   |
| 9.  | (a) like     | (b) similar   | (c) love     | (d) same   |
| 10. | (a) spoke    | (b) speak     | (c) speaking | (d) speech |
| 11. | (a) notices  | (b) noticed   | (c) noticing | (d) notice |
| 12. | (a) one      | (b) a         | (c) the      | (d) once   |

# SPELLING

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

## Paragraph 1

1. learnt many things from atuenr
2. Scientists have vopledede a special way
3. without the need for iwsge
4. aitalmers such as cotton
5. The protein is ailrms to the one found in the silk
6. It is very strong and eilatcs (stretchy)

## Paragraph 2

7. part of a tnaocig
8. pipedd in water
9. useful for rtmiyali and survival clothes
10. Demirel spoke about the nneiviot
11. they increase the oralvle strength
12. we are making self-healing ixlstet



# PUT THE TEXT BACK TOGETHER

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

**Number these lines in the correct order.**

- ( ) of teeth that cover the suckers on a squid. The protein is similar to the one found in the silk that
- ( ) itself, without the need for sewing. It works with materials such as cotton, linen and wool. The scientists are
- ( **1** ) Humans have learnt many things from nature. These things have helped us in our daily life. The latest
- ( ) spiders use to make spider webs. It is very strong and elastic (stretchy).
- ( ) The new protein has been developed as part of a coating, which is put on clothes. When the coating is dipped
- ( ) strength of the material. For the first time, we are making self-healing textiles."
- ( ) longer and save us money. It could also be useful for military and survival clothes. People like
- ( ) soldiers and mountaineers would be safer if they had clothes that repaired quickly and easily. Professor Demirel
- ( ) and Dr Melik Demirel looked at how squid can cling on to things so well. The research team found a protein in the rings
- ( ) from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick
- ( ) be noticed in everyday wear." He added: "Even thin, they increase the overall
- ( ) in water, the area around the rip or tear joins together in less than a minute. This could help clothes last
- ( ) thing is self-repairing clothing. Scientists have developed a special way for clothing to repair rips and tears by
- ( ) spoke about the invention. He said: "The coatings are thin, less than a micron, so they wouldn't

# PUT THE WORDS IN THE RIGHT ORDER

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

1. things nature have many from Humans learnt .
2. have daily helped life us These in things our .
3. a to special repair way rips for Developed clothing .
4. on Rings that suckers squid teeth the a of cover .
5. one found in the silk that spiders use Similar to the .
6. coating The new protein has been developed as part of a .
7. than less in together joins rip the around area The minute a .
8. help money and clothes This save last could us longer .
9. material the of strength overall the increase They .
10. textiles healing - self making are we , time first the For .

# CIRCLE THE CORRECT WORD (20 PAIRS)

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

Humans have learnt many things from *natural / nature*. These things have helped us in our daily life. The latest *thing / things* is self-repairing clothing. Scientists have developed a *special / specially* way for clothing to repair rips and tears by *themselves / itself*, without the need for sewing. It works with materials such *was / as* cotton, linen and wool. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr Melik Demirel looked *at / on* how squid can cling on *too / to* things so well. The research team found a protein in the rings of teeth that *recover / cover* the suckers on a squid. The protein is *similar / same* to the one found in the silk that spiders use to make spider webs. It is very *strong / strength* and elastic (stretchy).

The new protein has been *development / developed* as part of a coating, which is put on *clothe / clothes*. When the coating is dipped *in / on* water, the area around the rip or tear joins together in *fewer / less* than a minute. This could help clothes *last / lasts* longer and save us money. It could also be useful for military and *survival / survive* clothes. People like soldiers and mountaineers would be safer if they had clothes that repaired *quick / quickly* and easily. Professor Demirel *spoke / speak* about the invention. He said: "The coatings are thin, less than a micron, so they wouldn't be *notice / noticed* in everyday wear." He added: "Even thin, they increase the *overall / overalls* strength of the material. For the first time, we are making self-healing textiles."

**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 <http://www.BreakingNewsEnglish.com/1608/160816-self-repairing-clothes.html>

H\_m\_ns h\_v\_ l\_\_rnt m\_ny th\_ngs fr\_m n\_t\_r\_. Th\_s\_ th\_ngs h\_v\_ h\_lp\_d \_s \_n \_\_r d\_\_ly l\_f\_. Th\_ l\_t\_st th\_ng \_s s\_lf-r\_p\_\_r\_ng cl\_th\_ng. Sc\_\_nt\_sts h\_v\_ d\_v\_l\_p\_d \_ sp\_c\_\_l w\_y f\_r cl\_th\_ng t\_r\_p\_\_r\_r\_ps \_nd t\_\_rs by \_ts\_lf, w\_th\_\_t th\_ n\_\_d f\_r s\_w\_ng. \_t w\_rks w\_th m\_t\_r\_\_ls s\_ch \_s c\_tt\_n, l\_n\_n \_nd w\_\_l. Th\_ sc\_\_nt\_sts \_r fr\_m th\_ N\_v\_l R\_s\_\_rch \_ff\_c\_\_nd P\_nnsylv\_n\_\_ St\_t\_ \_n\_v\_rs\_ty \_n th\_ \_S\_. Sc\_\_nt\_sts Dr. W\_l\_t\_r Dr\_ss\_ck \_nd Dr M\_l\_k D\_m\_r\_l l\_k\_d \_t h\_w sq\_\_d c\_n cl\_ng \_n t\_ th\_ngs s\_w\_ll. Th\_r\_s\_\_rch t\_\_m f\_\_nd \_ pr\_t\_\_n \_n th\_r\_ngs \_f t\_\_th th\_t c\_v\_r th\_s ck\_rs \_n \_sq\_\_d. Th\_ pr\_t\_\_n \_s s\_m\_l\_r t\_ th\_ \_n\_f\_\_nd \_n th\_s\_lk th\_t sp\_d\_rs \_s\_t\_m\_k\_sp\_d\_r w\_bs. \_t\_s v\_r\_y str\_ng \_nd \_l\_st\_c (str\_tchy).

Th\_ n\_w pr\_t\_\_n h\_s b\_\_n d\_v\_l\_p\_d \_s p\_rt \_f \_c\_\_t\_ng, wh\_ch \_s p\_t \_n cl\_th\_s. Wh\_n th\_ c\_\_t\_ng \_s d\_pp\_d \_n w\_t\_r, th\_ \_r\_\_ \_r\_\_nd th\_r\_p \_r t\_\_r j\_\_ns t\_g\_th\_r \_n l\_ss th\_n \_m\_n\_t\_. Th\_s c\_\_ld h\_lp cl\_th\_s l\_st\_l ng\_r \_nd s\_v\_\_s m\_n\_y. \_t c\_\_ld \_ls\_b \_s\_f\_l\_f\_r m\_l\_t\_ry \_nd s\_rv\_v\_l cl\_th\_s. P\_\_pl\_l\_k\_s ld\_\_rs \_nd m\_\_nt\_\_n\_\_rs w\_\_ld b\_s\_f\_r\_f th\_y h\_d cl\_th\_s th\_t r\_p\_\_r\_d q\_\_ckly \_nd \_\_s\_ly. Pr\_f\_ss\_r D\_m\_r\_l sp\_k\_ \_b\_\_t th\_ \_nv\_nt\_\_n. H\_s\_\_d: "Th\_ c\_\_t\_ngs \_r th\_n, l\_ss th\_n \_m\_cr\_n, s\_th\_y w\_\_ldn't b\_ n\_t\_c\_d \_n \_v\_ryd\_y w\_\_r." H\_\_dd\_d: "\_v\_n th\_n, th\_y \_ncr\_\_s th\_ \_v\_r\_ll str\_ngth \_f th\_ m\_t\_r\_\_l. F\_r th\_ f\_rst t\_m\_, w\_\_r\_m\_k\_ng s\_lf-h\_\_l ng t\_xt\_l\_s."

# PUNCTUATE THE TEXT AND ADD CAPITALS

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

humans have learnt many things from nature these things have helped us in our daily life the latest thing is self-repairing clothing scientists have developed a special way for clothing to repair rips and tears by itself without the need for sewing it works with materials such as cotton linen and wool the scientists are from the naval research office and pennsylvania state university in the usa scientists dr walter dressick and dr melik demirel looked at how squid can cling on to things so well the research team found a protein in the rings of teeth that cover the suckers on a squid the protein is similar to the one found in the silk that spiders use to make spider webs it is very strong and elastic (stretchy)

the new protein has been developed as part of a coating which is put on clothes when the coating is dipped in water the area around the rip or tear joins together in less than a minute this could help clothes last longer and save us money it could also be useful for military and survival clothes people like soldiers and mountaineers would be safer if they had clothes that repaired quickly and easily professor demirel 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"

# PUT A SLASH ( / ) WHERE THE SPACES ARE

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

Humans have learnt many things from nature. These things have helped us in our daily life. The latest thing is self-repairing clothing. Scientists have developed a special way for clothing to repair rips and tears by itself, without the need for sewing. It works with materials such as cotton, linen and wool. The scientists are from the Naval Research Office and Pennsylvania State University in the USA. Scientists Dr. Walter Dressick and Dr. Melik Demirel looked at how squid can cling onto things so well. Their research team found a protein in the rings of teeth that cover the suckers on a squid. The protein is similar to the one found in the silk that spiders use to make spider webs. It is very strong and elastic (stretchy). The new protein has been developed as a part of a coating, which is put on clothes. When the coating is dipped in water, the area around the rip or tear joins together in less than a minute. This could help clothes last longer and save us money. It could also be useful for military and survival clothes. People like soldiers and mountaineers would be safer if they had clothes that repaired quickly and easily. Professor Demirel 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."







# 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 self-repairing clothes. Share what you discover with your partner(s) in the next lesson.

**3. SQUID:** Make a poster about squid. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. EVERLASTING CLOTHES:** Write a magazine article about wearing and repairing our clothes forever, so we don't need to buy as many. Include imaginary interviews with people who are for and against it.

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 self-repairing clothes. Ask him/her three questions about them. Give him/her three of your ideas on how we can make clothes last longer. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## TRUE / FALSE (p.4)

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

## SYNONYM MATCH (p.4)

- |                     |               |
|---------------------|---------------|
| 1. learnt / learned | a. discovered |
| 2. daily            | b. everyday   |
| 3. way              | c. method     |
| 4. repair           | d. fix        |
| 5. similar          | e. alike      |
| 6. coating          | f. covering   |
| 7. dipped           | g. immersed   |
| 8. noticed          | h. seen       |
| 9. easily           | i. simply     |
| 10. material        | j. fabric     |

## COMPREHENSION QUESTIONS (p.8)

1. Nature
2. Sewing
3. Wool
4. Squid
5. Spider's web silk
6. Water
7. Less than a minute
8. Money
9. Less than a micron
10. Their strength

## MULTIPLE CHOICE - QUIZ (p.9)

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

## ALL OTHER EXERCISES

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