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Self-cleaning clothes coming

MANY FLASH AND ONLINE ACTIVITIES FOR THIS LESSON, PLUS A LISTENING, AT:

http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

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17th December, 2011

THE READING / TAPESCRIPT

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Good news may be on the way for people who hate doing the laundry – self-cleaning clothes. Scientists in China are developing a fabric that cleans itself under the sunlight. This could make washing clothes a thing of the past. Researchers at Shanghai's Jiao Tong University and Hubei University created a chemical that causes cotton materials to clean themselves under the sun. The chemical coating is made from titanium dioxide, which breaks down dirt and stains, and removes odours when placed under the sun.

The researchers say their discovery is cheap, non-toxic and environmentally friendly. Titanium dioxide is one of the most widely used chemicals in the world. It is in sunscreen, kitchen and bathroom tiles, and odour-free socks. A test showed that the chemical completely removed a large orange stain on a white piece of cotton cloth in just two hours of sunlight. Many stores are interested in selling self-cleaning clothes. However, shop owners from rainy countries are keeping quiet about the product.

PHRASE MATCH

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Match the following phrases from the article.

Paragraph 1

- | | |
|---------------------------------|--------------------------|
| 1. Good news may be | a. thing of the past |
| 2. a fabric that cleans itself | b. on the way |
| 3. make washing clothes a | c. down dirt and stains |
| 4. The chemical coating is made | d. odours |
| 5. breaks | e. from titanium dioxide |
| 6. removes | f. under the sunlight |

Paragraph 2

- | | |
|---------------------------|----------------------|
| 1. non- | a. about the product |
| 2. environmentally | b. used chemicals |
| 3. one of the most widely | c. friendly |
| 4. bathroom | d. toxic |
| 5. removed a large orange | e. tiles |
| 6. keeping quiet | f. stain |

LISTENING GAP FILL

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Good news _____ for people who hate doing the laundry – self-cleaning clothes. Scientists in China are _____ that cleans itself under the sunlight. This could make washing clothes a _____.

Researchers at Shanghai's Jiao Tong University and Hubei University created a _____ cotton materials to clean themselves under the sun. The _____ made from titanium dioxide, which breaks down dirt and stains, and removes odours when _____.

The researchers say their _____, non-toxic and environmentally friendly. Titanium dioxide is one of _____ chemicals in the world. It is in sunscreen, kitchen and bathroom tiles, and _____. A test showed that the chemical completely removed a large orange stain on _____ cotton cloth in just two hours of sunlight. Many stores are _____ self-cleaning clothes. However, shop owners from rainy countries are _____ the product.

MULTIPLE CHOICE

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Good news may be on the (1) _____ for people who hate doing the laundry – self-cleaning clothes. Scientists in China are (2) _____ a fabric that cleans itself under the sunlight. This could (3) _____ washing clothes a thing of the past. Researchers at Shanghai’s Jiao Tong University and Hubei University created a chemical (4) _____ causes cotton materials to clean (5) _____ under the sun. The chemical coating is made from titanium dioxide, which breaks down dirt and stains, and removes odours (6) _____ placed under the sun.

The researchers (7) _____ their discovery is cheap, non-toxic and environmentally friendly. Titanium dioxide is one of the (8) _____ widely used chemicals in the world. It is in sunscreen, kitchen and bathroom tiles, and odour-free socks. A test showed that the chemical (9) _____ removed a large orange stain on a white (10) _____ of cotton cloth in just two hours of sunlight. Many stores are interested (11) _____ selling self-cleaning clothes. However, shop owners from rainy countries are keeping (12) _____ about the product.

Put the correct words from this table into the article.

- | | | | |
|-----|----------------|----------------|--------------|
| 1. | (a) way | (b) weigh | (c) why |
| 2. | (a) developed | (b) developing | (c) develops |
| 3. | (a) make | (b) making | (c) makes |
| 4. | (a) who | (b) from | (c) that |
| 5. | (a) itself | (b) themselves | (c) self |
| 6. | (a) where | (b) which | (c) when |
| 7. | (a) speak | (b) say | (c) talk |
| 8. | (a) most | (b) must | (c) many |
| 9. | (a) completely | (b) completed | (c) complete |
| 10. | (a) peace | (b) pies | (c) piece |
| 11. | (a) on | (b) in | (c) at |
| 12. | (a) quite | (b) quit | (c) quiet |

SPELLING

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Spell the jumbled words (from the text) correctly.

Paragraph 1

1. hate doing the nudrayl
2. a ibcfra that cleans itself
3. a gnthi of the past
4. cotton mrlaesiat
5. esmovre odours
6. dlpaec under the sun

Paragraph 2

7. their srocveyid is cheap
8. environmentally nedfyilr
9. widely used lschmiace
10. a large orange itnsa
11. shop owners from anyir countries
12. the pdrcuot

PUT THE TEXT BACK TOGETHER

From: http://www.NewsEnglishLessons.com/1112/111217-self_cleaning_clothes.html

Number these lines in the correct order.

- () tiles, and odour-free socks. A test showed that the chemical completely removed a large orange
- () washing clothes a thing of the past. Researchers at Shanghai's Jiao Tong University and Hubei University created a chemical that
- () The researchers say their discovery is cheap, non-toxic and environmentally
- () in selling self-cleaning clothes. However, shop owners from rainy
- () made from titanium dioxide, which breaks down dirt
- () the laundry – self-cleaning clothes. Scientists in China are developing a fabric that cleans itself under the sunlight. This could make
- () countries are keeping quiet about the product.
- (**1**) Good news may be on the way for people who hate doing
- () friendly. Titanium dioxide is one of the most widely used chemicals in the world. It is in sunscreen, kitchen and bathroom
- () stain on a white piece of cotton cloth in just two hours of sunlight. Many stores are interested
- () and stains, and removes odours when placed under the sun.
- () causes cotton materials to clean themselves under the sun. The chemical coating is

THE READING / TAPESCRIPT

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With a partner, put the words back into the correct order.

1. the on be may news Good way.

2. who doing laundry People hate the.

3. under fabric the that sunlight cleans itself A.

4. of washing the clothes past a thing Make.

5. under placed when odours Removes sun the.

6. researchers The cheap is discovery their say.

7. most the widely world used chemicals The in.

8. orange removed large stain Completely a.

9. selling cleaning Stores in - interested self clothes are.

10. quiet Keeping product the about.

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. _____

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. SELF-CLEANING CLOTHES: Search the Internet and find more information about self-cleaning clothes. Talk about what you discover with your partner(s) in the next lesson.

3. MAGAZINE ARTICLE: Write a magazine article about self-cleaning clothes. Include an imaginary interview with the scientists and someone who has to do a lot of laundry. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

4. 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.

5. LETTER: Write a letter to a washing clothes expert. Ask him/her three questions about washing clothes. Give him/her three of your opinions on it. Read what you wrote to your classmates in the next lesson. Your partner will answer the questions you asked.