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Level 6

NASA spacesuits with built-in toilet

23rd February, 2018

<https://breakingnewsenglish.com/1802/180223-spacesuit.html>

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Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing experts are wondering how a new suit might change their industry. The suit is a little out of this world - literally. It is a spacesuit that has its own built-in toilet. The high-tech garb has been designed by NASA engineers to help astronauts deal with the call of nature in emergency situations in space. The new suits are called the Orion Crew Survival Systems Suits (OCSSS). They will be worn by astronauts on NASA's next-generation spacecraft, Orion, which will venture a lot farther away from Earth than previous space missions have gone. The spacecraft will not be advanced enough to reach Mars, but will be able to carry humans around the moon and back.

The OCSSS spacesuits will allow astronauts to survive for six days in emergency situations. The suit is fitted with a revolutionary waste disposal system that will allow astronauts to do things like urinate and defecate without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained how important and how much of a life-saver the OCSSS space suit will be. He said: "Spaceflight is not always glamorous. People need to go the bathroom, even in a spacecraft. How is this waste treated such that it does not harm the astronaut or even kill them?" The suit's technology could be used in hospitals and in the camping and trekking industries in the future.

Sources: <https://www.space.com/39710-orion-spacesuit-waste-disposal-system.html>
<http://www.gulftoday.ae/portal/6c0c05d3-a6b5-4f7e-8cbe-98481effbf51.aspx>
<https://www.theguardian.com/science/2017/feb/15/nasa-space-poop-challenge-suit-designs>

WARM-UPS

1. SPACESUITS: Students walk around the class and talk to other students about spacesuits. 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?

fashion designers / experts / spacesuit / NASA / engineers / emergency / astronaut / survive / waste disposal / life-saver / glamorous / bathroom / technology / future

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

3. SPACE TRAVEL: Students A **strongly** believe space travel is essential; Students B **strongly** believe it isn't. Change partners again and talk about your conversations.

4. HIGH TECH: What high-tech features could these items of clothing have? Complete this table with your partner(s). Change partners often and share what you wrote.

	Features	Usefulness
Suits		
Shoes		
Gloves		
Jeans		
T-shirts		
Caps		

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

6. TOILETS: Rank these with your partner. Put the best things to improve toilets at the top. Change partners often and share your rankings.

- warm seat
- padded seat
- music
- Internet access
- TV screen
- silent flush
- no "up-splash"
- scented toilet paper

VOCABULARY MATCHING

Paragraph 1

- | | |
|----------------------|--|
| 1. experts | a. Extremely enjoyable or impressive. |
| 2. out of this world | b. Clothing or dress, especially of a distinctive or special kind. |
| 3. literally | c. An important assignment carried out for political, religious, or commercial purposes, usually involving travel. |
| 4. garb | d. Exactly; precisely. |
| 5. call of nature | e. A risky or daring journey or project. |
| 6. venture | f. People who have a comprehensive and authoritative knowledge of or skill in a particular area. |
| 7. missions | g. A nice or simple way to refer to a need to go to the toilet. |

Paragraph 2

- | | |
|------------------|---|
| 8. revolutionary | h. The action or process of throwing away or getting rid of something. |
| 9. disposal | i. Go to the toilet (or somewhere else) to pass water from your body. |
| 10. urinate | j. Walking a long way across mountains, deserts and other landscapes. |
| 11. defecate | k. Having attractive or exciting qualities that makes certain people or things seem appealing or special. |
| 12. glamorous | l. Go to the toilet (or somewhere else) to pass solid waste from your body. |
| 13. waste | m. Involving or causing a complete or dramatic change. |
| 14. trekking | n. Material that is not wanted; the unusable remains or by products of something. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

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

- a. The article said fashion designers helped design the new spacesuit. **T / F**
- b. The new spacesuit will also let astronauts make telephone calls. **T / F**
- c. The new spacesuit is called an Onion suit. **T / F**
- d. A new spacecraft will be able to go around the moon and back. **T / F**
- e. The spacesuit will let astronauts both urinate and defecate in it. **T / F**
- f. Astronauts will have to take the suit off if they want to eat. **T / F**
- g. An astronaut said spaceflight is not always glamorous. **T / F**
- h. Hospitals could one day make use of the spacesuit's technology. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|---------------------|------------------|
| 1. experts | a. travel |
| 2. garb | b. let |
| 3. deal with | c. pee |
| 4. venture | d. clothing |
| 5. advanced | e. dealt with |
| 6. allow | f. cutting-edge |
| 7. disposal | g. specialists |
| 8. urinate | h. exciting |
| 9. glamorous | i. manage |
| 10. treated | j. throwing away |

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

- | | |
|--|-----------------------------|
| 1. Fashion designers and clothing | a. world - literally |
| 2. wondering how a new suit might change | b. OCSSS space suit will be |
| 3. The suit is a little out of this | c. space missions |
| 4. help astronauts deal with the call | d. glamorous |
| 5. farther away from Earth than previous | e. their industry |
| 6. fitted with a revolutionary waste | f. and defecate |
| 7. do things like urinate | g. experts |
| 8. Spaceflight is not always | h. trekking |
| 9. how much of a life-saver the | i. of nature |
| 10. camping and | j. disposal system |

GAP FILL

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing experts are (1) _____ how a new suit might change their (2) _____. The suit is a little out of this world - literally. It is a spacesuit that has its own (3) _____ toilet. The high-tech (4) _____ has been designed by NASA engineers to help astronauts deal with the call of (5) _____ in emergency situations in space. The new suits are called the Orion Crew Survival Systems Suits (OCSSS). They will be (6) _____ by astronauts on NASA's next-generation spacecraft, Orion, which will (7) _____ a lot farther away from Earth than previous space missions have gone. The spacecraft will not be (8) _____ enough to reach Mars, but will be able to carry humans around the moon and back.

worn
garb
advanced
built-in
wondering
industry
venture
nature

The OCSSS spacesuits will (9) _____ astronauts to survive for six days in emergency situations. The suit is (10) _____ with a revolutionary waste disposal (11) _____ that will allow astronauts to do things like (12) _____ and defecate without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained how important and how much of a (13) _____ the OCSSS space suit will be. He said: "Spaceflight is not always (14) _____. People need to go the bathroom, even in a spacecraft. How is this waste (15) _____ such that it does not harm the astronaut or even kill them?" The suit's technology could be used in hospitals and in the camping and trekking industries in the (16) _____.

system
life-saver
future
allow
urinate
treated
fitted
glamorous

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

- 1) The suit is a little out of this _____
 - a. world - literally
 - b. world - literary
 - c. word - literally
 - d. word - literary
- 2) It is a spacesuit that has its own _____
 - a. building toilet
 - b. bill tin toilet
 - c. built-in toilet
 - d. build tin toilet
- 3) designed by NASA engineers to help astronauts deal with the _____
 - a. call off mature
 - b. call of nature
 - c. call of mature
 - d. call of nature
- 4) They will be worn by astronauts on NASA's _____ spacecraft
 - a. next-generational
 - b. nest-generation
 - c. necks-generation
 - d. next-generation
- 5) The spacecraft will not be advanced enough _____ Mars
 - a. to reach
 - b. to arch
 - c. too reach
 - d. to retch
- 6) The suit is fitted with a revolutionary waste _____
 - a. dispose all system
 - b. this postal system
 - c. disposal system
 - d. this pose all system
- 7) NASA astronaut Rick Mastracchio explained how important and how much _____
 - a. off a life-saver
 - b. of the life-saver
 - c. of a live saver
 - d. of a life-saver
- 8) He said: "Spaceflight is not _____"
 - a. all ways glamorous
 - b. always glamorous
 - c. all weighs glamorous
 - d. anyways glamorous
- 9) How is this waste treated such that it does not _____
 - a. harm the astronaut
 - b. harms the astronaut
 - c. harmed the astronaut
 - d. harming the astronaut
- 10) could be used in hospitals and in the camping and trekking _____ the future
 - a. industry sin
 - b. industrious in
 - c. industrials in
 - d. industries in

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing experts (1) _____ a new suit might change their industry. The suit is a little out of this world - literally. It is a spacesuit that has its own (2) _____. The high-tech garb has been designed by NASA engineers to help astronauts deal with the (3) _____ in emergency situations in space. The new suits are called the Orion Crew Survival Systems Suits (OCSSS). They will be (4) _____ on NASA's next-generation spacecraft, Orion, which will venture a lot farther away from Earth than (5) _____ have gone. The spacecraft will not be advanced enough to reach Mars, but will be able to carry humans around the (6) _____.

The OCSSS spacesuits will allow astronauts to (7) _____ days in emergency situations. The suit is fitted with a revolutionary waste (8) _____ will allow astronauts to do things like (9) _____ without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained how important and how much of a life-saver the OCSSS space suit will be. He said: "Spaceflight is (10) _____. People need to go the bathroom, even in a spacecraft. How is this (11) _____ that it does not harm the astronaut or even kill them?" The suit's technology could be used in hospitals and in the (12) _____ industries in the future.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

1. What kind of experts are wondering about the new spacesuit?
2. Who designed the new spacesuit?
3. What will the spacesuit help astronauts deal with the call of?
4. Where won't the new spacecraft be able to go to?
5. Where will a new spacecraft be able to go to (and come back)?
6. How long will astronauts be able to survive in the spacesuits?
7. What will astronauts be able to do in the suit besides go to the toilet?
8. What did an astronaut say was not always glamorous?
9. Where did an astronaut say people needed to go?
10. What buildings could the suit's technology be used in one day?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

- 1) What kind of experts are wondering about the new spacesuit?
 - a) astronomers
 - b) toilet experts
 - c) clothing experts
 - d) urinary tract experts
- 2) Who designed the new spacesuit?
 - a) NASA engineers
 - b) Armani
 - c) Boeing
 - d) George Bartholomew
- 3) What will the spacesuit help astronauts deal with the call of?
 - a) the wild
 - b) nature
 - c) mission control
 - d) their smartphone
- 4) Where won't the new spacecraft be able to go to?
 - a) the upper atmosphere
 - b) the moon
 - c) Australia
 - d) Mars
- 5) Where will a new spacecraft be able to go to (and come back)?
 - a) Mercury
 - b) Mars
 - c) the moon
 - d) the Sun
- 6) How long will astronauts be able to survive in the spacesuits?
 - a) five days
 - b) six days
 - c) seven days
 - d) eight days
- 7) What will astronauts be able to do in the suit besides go to the toilet?
 - a) generate electricity
 - b) make a tent
 - c) play games
 - d) eat
- 8) What did an astronaut say was not always glamorous?
 - a) clothes
 - b) spaceflight
 - c) space
 - d) peeing in one's suit
- 9) Where did an astronaut say people needed to go?
 - a) Mars
 - b) the bathroom
 - c) into space
 - d) to another galaxy
- 10) What buildings could the suit's technology be used in one day?
 - a) hospitals
 - b) lunar buildings
 - c) buildings on Mars
 - d) McDonald's

ROLE PLAY

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Role A – Warm Seat

You think a warm seat is the best thing to improve a toilet. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the most unnecessary of these (and why): TV screen, no "up-splash" or a silent flush.

Role B – TV Screen

You think a TV screen is the best thing to improve a toilet. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the most unnecessary of these (and why): warm seat, no "up-splash" or a silent flush.

Role C – No "Up-splash"

You think no "up-splash" is the best thing to improve a toilet. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the most unnecessary of these (and why): TV screen, warm seat or a silent flush.

Role D – Silent Flush

You think a silent flush is the best thing to improve a toilet. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the most unnecessary of these (and why): TV screen, no "up-splash" or warm seat.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

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

space	suit
--------------	-------------

- 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">• wondering• own• call• help• next• back	<ul style="list-style-type: none">• allow• six• like• always• such• future
---	---

SPACESUITS SURVEY

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Write five GOOD questions about spacesuits 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.

SPACESUITS DISCUSSION

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

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'space'?
3. What do you think of spacesuits?
4. How could spacesuits change our fashions?
5. How useful are clothes with built-in toilets?
6. What other built-in features do clothes need?
7. What high-tech clothes would you like to see in the shops?
8. How often do you have an emergency call of nature?
9. What would space travel be like?
10. What do you know about NASA?

NASA spacesuits with built-in toilet – 23rd February, 2018
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SPACESUITS DISCUSSION

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

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'suit'?
13. What do you think about what you read?
14. How good are you in emergency situations?
15. How do you think the waste disposal system will work?
16. Would you go to the toilet in a suit?
17. How glamorous do you think space travel is?
18. How could this technology be used in hospitals?
19. Why is space travel important?
20. What questions would you like to ask the astronauts?

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 <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing (1) _____ are wondering how a new suit might change their industry. The suit is a little (2) _____ of this world - literally. It is a spacesuit that has its own built-in toilet. The high-tech (3) _____ has been designed by NASA engineers to help astronauts deal with the (4) _____ of nature in emergency situations in space. The new suits are called the Orion Crew Survival Systems Suits (OCSSS). They will be worn by astronauts on NASA's next-generation spacecraft, Orion, which will (5) _____ a lot farther away from Earth than previous space missions have gone. The spacecraft will not be advanced (6) _____ to reach Mars, but will be able to carry humans around the moon and back.

The OCSSS spacesuits will allow astronauts to survive for six days (7) _____ emergency situations. The suit is fitted with a revolutionary (8) _____ disposal system that will allow astronauts to do things like (9) _____ and defecate without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained how important and how much of a life-saver the OCSSS space suit will be. He said: "Spaceflight is not always (10) _____. People need to go to the bathroom, even in a spacecraft. How is this waste treated (11) _____ that it does not harm the astronaut or even kill them?" The suit's technology could be used in hospitals and in the camping and trekking industries (12) _____ the future.

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

- | | | | | |
|-----|---------------|---------------|---------------|---------------|
| 1. | (a) expats | (b) experts | (c) expert | (d) expertise |
| 2. | (a) into | (b) out | (c) up | (d) over |
| 3. | (a) garble | (b) gab | (c) guard | (d) garb |
| 4. | (a) whisper | (b) call | (c) shout | (d) drain |
| 5. | (a) adventure | (b) advent | (c) vent | (d) venture |
| 6. | (a) plenty | (b) such | (c) enough | (d) so |
| 7. | (a) in | (b) of | (c) on | (d) to |
| 8. | (a) vast | (b) paste | (c) waste | (d) haste |
| 9. | (a) recreate | (b) desecrate | (c) procreate | (d) urinate |
| 10. | (a) glamorous | (b) humorous | (c) porous | (d) spurious |
| 11. | (a) such | (b) much | (c) touch | (d) crutch |
| 12. | (a) in | (b) at | (c) of | (d) to |

SPELLING

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Paragraph 1

1. Fashion designers and clothing teesxrp
2. a new suit might change their itunsdyr
3. a little out of this world - iallyelrt
4. in cegernnye situations
5. NASA's next-eeinoratgn spacecraft
6. veutrne a lot farther away

Paragraph 2

7. vesvuri for six days
8. waste oapsidls system
9. do things like tnueiar
10. etfaedce without taking it off
11. Spaceflight is not always osorlamgu
12. camping and rikkegtn

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Number these lines in the correct order.

- () and defecate without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained
- () away from Earth than previous space missions have gone. The spacecraft will not be advanced
- () glamorous. People need to go the bathroom, even in a spacecraft. How is this waste
- (**1**) Fashion designers and clothing experts are wondering how a new suit might change their industry. The suit is a little out
- () with a revolutionary waste disposal system that will allow astronauts to do things like urinate
- () designed by NASA engineers to help astronauts deal with the call of nature in emergency
- () enough to reach Mars, but will be able to carry humans around the moon and back.
- () by astronauts on NASA's next-generation spacecraft, Orion, which will venture a lot farther
- () The OCSSS spacesuits will allow astronauts to survive for six days in emergency situations. The suit is fitted
- () situations in space. The new suits are called the Orion Crew Survival Systems Suits (OCSSS). They will be worn
- () how important and how much of a life-saver the OCSSS space suit will be. He said: "Spaceflight is not always
- () be used in hospitals and in the camping and trekking industries in the future.
- () of this world - literally. It is a spacesuit that has its own built-in toilet. The high-tech garb has been
- () treated such that it does not harm the astronaut or even kill them?" The suit's technology could

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

1. new industry . might a suit How change their
2. suit is The little out of world . this a
3. astronauts deal call Help nature . the of with
4. away a Venture from farther lot Earth .
5. around Carry and humans the back . moon
6. for to six Astronauts days emergencies . survive in
7. waste with Fitted system . disposal revolutionary a
8. urinate . do to astronauts like things Allow
9. even the Harm kill or astronaut them .
10. used in be The technology could hospitals . suit's

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing *expats / experts* are wondering how a new suit might change their industry. The *suite / suit* is a little out of this world - literally. It is a spacesuit that has its own *building / built-in* toilet. The high-tech *garb / grab* has been *designed / designing* by NASA engineers to help astronauts deal with the call of *nature / natural* in emergency situations in space. The new suits are *called / call* the Orion Crew Survival Systems Suits (OCSSS). They will be *wearing / worn* by astronauts on NASA's next-generation spacecraft, Orion, which will *adventure / venture* a lot farther away from Earth than previous space missions have gone. The spacecraft will not be advanced enough to reach Mars, but will be *able / ability* to carry humans around the moon and back.

The OCSSS spacesuits will allow astronauts to *survival / survive* for six days in emergency situations. The suit is fitted *by / with* a revolutionary waste disposal system that will *allowance / allow* astronauts to do things like urinate and *defecate / delicate* without taking it off. Astronauts will also be able to eat *on / in* the suit. NASA astronaut Rick Mastracchio explained how important and how *much / more* of a life-saver the OCSSS space suit will be. He said: "Spaceflight is not always glamorous. People need to go the bathroom, *even / ever* in a spacecraft. How is this *waste / paste* treated such that it does not *harm / harmful* the astronaut or even kill them?" The suit's technology could be used in hospitals and in the camping and trekking industries *at / in* the future.

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 <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

F_s h__ n d_s_g n_r s _n d c_l_t h_n g _x p_r t s _r_
w_n d_r_n g h_w _ n_w s__ t m_g h t c_h_n g_ t h__
r _n d_s t r y . T h_ s__ t _s _ l_t t l_ __ t _f t h_s
w_r l d - l_t_r_l l y . I t _s _ s p_c_s__ t t h_t h_s
_t s _w n b__ l t -_n t__ l_t . T h_ h_g h - t_c h g_r
b h_s b__ n d_s_g n_d b y N A S A _n g_n__ r s t_
h_l p _s t r_n__ t s d__ l w_t h t h_ c_l l _f n_t_r_
_n _m_r g_n c y s_t__ t__ n s _n s p_c_ . T h_ n_w
s__ t s _r_ c_l l_d t h_ O r__ n C r_w S_r v_v_l S y
s_t_m s S__ t s (O C S S S) . T h_y w_l l b_ w_r n
b y _s t r_n__ t s _n N A S A ' s n_x t - g_n_r t__ n s
p_c_c r_f t , O r__ n , w h_c h w_l l v_n t_r_ _ l_t
f_r t h_r _w_y f_r m E_r t h t h_n p_r v__ s s p_c_
m_s s__ n s h_v_ g_n_ . T h_ s p_c_c r_f t w_l l n_t
b_ d_v_n c_d _n__ g h t_r__ c h M_r s , b_t w_l l
b_ b_l_t_c_r r y h_m_n s _r__ n d t h_ m__ n _n d
b_c k .

T h_ O C S S S s p_c_s__ t s w_l l _l l_w _s t r_n__ t s
t_ s_r v_v_ f_r s_x d_y s _n _m_r g_n c y s_t__ t__
n s . T h_ s__ t _s f_t t_d w_t h _ r_v_l_t__ n_r y
w_s t_ d_s p_s_l s y s t_m t h_t w_l l _l l_w _s t
r_n__ t s t_ d_ t h_n g s l_k_r_n_t_ _n d d_f_c_t_
w_t h__ t t_k_n g _t _f f . A s t r_n__ t s w_l l _l s_
b_ b_l_t_ __ t _n t h_ s__ t . N A S A _s t r_n__ t
R_c k M_s t r_c c h__ _x p_l__ n_d h_w _m p_r t_n t _n
d h_w _m_c h _f _l_f - s_v_r t h_ O C S S S s p_c_
s__ t w_l l b_ . H_ s__ d : " S p_c_f l_i g h t _s _n t
_l w_y s g_l_m_r__ s . P__ p_l_ n__ d t_ g_ t h_ b_t
h_r__ m , _v_n _n _s p_c_c r_f t . H_w _s t h_s w_s
t_ t_r__ t_d s_c h t h_t _t d__ s _n t h_r m t h_ _s
t_r_n__ t _r _v_n k_l l t h_m ? " T h_ s__ t ' s t_c h
n_l_g y c__ l d b_ _s_d _n h_s p_t_l s _n d _n t h_
c_m p_n g _n d t_r_k_k_n g _n d_s t r__ s _n t h_
f_t_r_ .

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

fashion designers and clothing experts are wondering how a new suit might change their industry the suit is a little out of this world literally it is a spacesuit that has its own builtin toilet the hightech garb has been designed by nasa engineers to help astronauts deal with the call of nature in emergency situations in space the new suits are called the orion crew survival systems suits ocsss they will be worn by astronauts on nasas nextgeneration spacecraft orion which will venture a lot farther away from earth than previous space missions have gone the spacecraft will not be advanced enough to reach mars but will be able to carry humans around the moon and back

the ocsss spacesuits will allow astronauts to survive for six days in emergency situations the suit is fitted with a revolutionary waste disposal system that will allow astronauts to do things like urinate and defecate without taking it off astronauts will also be able to eat in the suit nasa astronaut rick mastracchio explained how important and how much of a lifesaver the ocsss space suit will be he said spaceflight is not always glamorous people need to go the bathroom even in a spacecraft how is this waste treated such that it does not harm the astronaut or even kill them the suits technology could be used in hospitals and in the camping and trekking industries in the future

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1802/180223-spacesuit.html>

Fashion designers and clothing experts are wondering how a newsuit might change their industry. The suit is a little out of this world - literally. It is a spacesuit that has its own built-in toilet. The high-tech garb has been designed by NASA engineers to help astronauts deal with the call of nature in emergency situations in space. The newsuits are called the Orion Crew Survival Systems Suits (OCSSS). They will be worn by astronauts on NASA's next-generation spacecraft, Orion, which will venture a lot farther away from Earth than previous space missions have gone. The spacecraft will not be advanced enough to reach Mars, but will be able to carry humans around the moon and back. The OCSSS spacesuits will allow astronauts to survive for six days in emergency situations. The suit is fitted with a revolutionary waste disposal system that will allow astronauts to do things like urinate and defecate without taking it off. Astronauts will also be able to eat in the suit. NASA astronaut Rick Mastracchio explained how important and how much of a life-saver the OCSSS spacesuit will be. He said: "Space flight is not always glamorous. People need to go to the bathroom, even in a spacecraft. How is this waste treated such that it does not harm the astronaut or even kill them?" The suit's technology could be used in hospitals and in the camping and trekking industries in the future.

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 this news story. Share what you discover with your partner(s) in the next lesson.

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

4. GOING TO THE TOILET: Write a magazine article about going to the toilet in emergency situations. Include imaginary interviews with people who designed and tested the OCSST space suit.

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 spacesuits. Ask him/her three questions about them. Give him/her three of your ideas on what spacesuits need. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1. f 2. a 3. d 4. b 5. g 6. e 7. c
8. m 9. h 10. i 11. l 12. k 13. n 14. j

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

- | | |
|--------------|------------------|
| 1. experts | a. specialists |
| 2. garb | b. clothing |
| 3. deal with | c. manage |
| 4. venture | d. travel |
| 5. advanced | e. cutting-edge |
| 6. allow | f. let |
| 7. disposal | g. throwing away |
| 8. urinate | h. pee |
| 9. glamorous | i. exciting |
| 10. treated | j. dealt with |

COMPREHENSION QUESTIONS (p.9)

1. Clothing experts
2. NASA engineers
3. Nature
4. Mars
5. The moon
6. Six days
7. Eat
8. Spaceflight
9. The bathroom
10. Hospitals

WORDS IN THE RIGHT ORDER (p.20)

1. How a new suit might change their industry.
2. The suit is a little out of this world.
3. Help astronauts deal with the call of nature.
4. Venture a lot farther away from Earth.
5. Carry humans around the moon and back.
6. Astronauts to survive for six days in emergencies.
7. Fitted with a revolutionary waste disposal system.
8. Allow astronauts to do things like urinate.
9. Harm the astronaut or even kill them.
10. The suit's technology could be used in hospitals.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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