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Level 5

NASA spacesuits with built-in toilet

23rd February, 2018

<https://breakingnewsenglish.com/1802/180223-spacesuit-5.html>

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Please try Levels 4 and 6. They are (a little) harder.

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THE READING

From <https://breakingnewsenglish.com/1802/180223-spacesuit-5.html>

Fashion designers are wondering how a new spacesuit might change their industry. The suit is out of this world - a spacesuit with its own built-in toilet. The high-tech suit was designed by NASA engineers to help astronauts deal with the call of nature in emergency situations. The new suit is called the Orion Crew Survival Systems Suit (OCSSS). It is for NASA's next-generation spacecraft, Orion, which will travel a lot farther away from Earth than previous space missions have. The spacecraft is not advanced enough to reach Mars. It will carry humans around the moon and back.

The spacesuits will let astronauts survive for six days in emergencies. The suit has a revolutionary waste disposal system so astronauts can do things like urinate and defecate without taking it off. Astronauts can also eat in the suit. An astronaut explained how important 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 technology could be used in hospitals 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>

PHRASE MATCHING

From <https://breakingnewsenglish.com/1802/180223-spacesuit-5.html>

PARAGRAPH ONE:

- | | |
|------------------------------------|--------------------------|
| 1. a new spacesuit might | a. missions |
| 2. a spacesuit with its own built- | b. spacecraft |
| 3. deal with the call | c. moon and back |
| 4. NASA's next-generation | d. in toilet |
| 5. travel a lot farther | e. of nature |
| 6. previous space | f. to reach Mars |
| 7. not advanced enough | g. change their industry |
| 8. It will carry humans around the | h. away from Earth |

PARAGRAPH TWO:

- | | |
|------------------------------|--------------------|
| 1. survive for six days | a. and defecate |
| 2. a revolutionary waste | b. the astronaut |
| 3. do things like urinate | c. glamorous |
| 4. Astronauts can also eat | d. in emergencies |
| 5. Spaceflight is not always | e. go the bathroom |
| 6. People need to | f. in hospitals |
| 7. it does not harm | g. disposal system |
| 8. technology could be used | h. in the suit |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/1802/180223-spacesuit-5.html>

Fashion designers are wondering how a (1) _____ change their industry. The (2) _____ of this world - a spacesuit with its own built-in toilet. The high-tech suit was designed by NASA engineers to help astronauts deal with the (3) _____ in emergency situations. The new suit is called the Orion Crew Survival Systems Suit (OCSSS). It is for NASA's (4) _____ spacecraft, Orion, which will travel a lot farther away from Earth than (5) _____ have. The spacecraft is not advanced enough to reach Mars. It will (6) _____ the moon and back.

The spacesuits will let astronauts (7) _____ days in emergencies. The suit has a revolutionary (8) _____ so astronauts can do things like (9) _____ without taking it off. Astronauts can also eat in the suit. An astronaut explained how important 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 technology could be (12) _____ in the future.

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1802/180223-spacesuit-5.html>

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SPACESUITS SURVEY

From <https://breakingnewsenglish.com/1802/180223-spacesuit-4.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.

WRITE QUESTIONS & ASK YOUR PARTNER(S)

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

a) _____

b) _____

c) _____

d) _____

e) _____

f) _____

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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) _____

