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Level 5 – 14th April 2025

Scientists discover new water purification microbes

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<https://breakingnewsenglish.com/2504/250414-water-purification-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/2504/250414-water-purification-5.html>

Scientists have discovered a previously unknown species of microbes. Researchers in the USA found them in an area below and above the Earth's surface called the Critical Zone. This is essential for sustaining life. The microbes have been called CSP1-3. They could be a key part of the process of water purification. Dr James Tiedje said that while soil is responsible for much of the filtration of rainwater, CSP1-3 may also be indispensable. He said: "CSP1-3 are the scavengers cleaning up what got through the surface layer of soil." They have a job to do to purify our drinking water.

The researchers looked at microbes living in the deep soil, up to 200 metres beneath our feet. They said the microbes remove harmful contaminants from the water supply. Dr Tiedje wants to cultivate CSP1-3 in his lab to find out more about them. He believes they could clean up pollution in the soil. He said: "We don't know their capacities for metabolizing tough pollutants and, if we could learn that, we can help solve one of the Earth's most pressing problems." The [scitechdaily.com](https://www.scitechdaily.com) website said: "Understanding this newly found group could boost conservation efforts."

Sources: <https://scitechdaily.com/scientists-discover-bizarre-new-lifeforms-in-earths-mysterious-critical-zone/>
<https://www.sci.news/biology/deep-soil-bacteria-13810.html>
<https://www.earth.com/news/new-microbes-found-deep-underground-critical-zone-help-clean-our-water/>

PHRASE MATCHING

From <https://breakingnewsenglish.com/2504/250414-water-purification-5.html>

PARAGRAPH ONE:

- | | |
|------------------------------------|---------------------------|
| 1. discovered a previously unknown | a. job to do |
| 2. This is essential | b. of the process |
| 3. They could be a key part | c. scavengers cleaning up |
| 4. the filtration | d. our drinking water |
| 5. CSP1-3 are the | e. for sustaining life |
| 6. got through the surface | f. of rainwater |
| 7. They have a | g. layer of soil |
| 8. purify | h. species of microbes |

PARAGRAPH TWO:

- | | |
|--|-----------------------------|
| 1. microbes living in | a. capacities |
| 2. up to 200 metres | b. contaminants |
| 3. microbes remove harmful | c. problems |
| 4. Dr Tiedje wants to cultivate CSP1-3 | d. efforts |
| 5. they could clean | e. in his lab |
| 6. We don't know their | f. the deep soil |
| 7. one of the Earth's most pressing | g. up pollution in the soil |
| 8. boost conservation | h. beneath our feet |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2504/250414-water-purification-5.html>

Scientists have discovered (1) _____ species of microbes. Researchers in the USA found them in (2) _____ and above the Earth's surface called the Critical Zone. This is essential for sustaining life. The microbes have been called CSP1-3. They could be (3) _____ of the process of water purification. Dr James Tiedje said that (4) _____ responsible for much of the filtration of rainwater, CSP1-3 may also be indispensable. He said: "CSP1-3 are the (5) _____ what got through the surface layer of soil." They have a job to (6) _____ our drinking water.

The researchers looked at microbes living in (7) _____, up to 200 metres beneath our feet. They said the microbes remove harmful (8) _____ water supply. Dr Tiedje wants to cultivate CSP1-3 in his lab to find out more about them. He believes they could (9) _____ in the soil. He said: "We don't know their capacities for metabolizing tough pollutants and, if we could learn that, we (10) _____ one of the Earth's (11) _____." The [scitechdaily.com](https://www.scitechdaily.com) website said: "Understanding this newly found (12) _____ conservation efforts."

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2504/250414-water-purification-5.html>

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WATER PURIFICATION SURVEY

From <https://breakingnewsenglish.com/2504/250414-water-purification-4.html>

Write five GOOD questions about water purification 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) _____

WRITING

From <https://breakingnewsenglish.com/2504/250414-water-purification-5.html>

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

[illegible]