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Level 5 - 27th November 2023 Bacteria pass 'memories' to future generations

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https://breakingnewsenglish.com/2311/231127-bacteria-memories-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/2311/231127-bacteria-memories-5.html

Scientists perhaps thought they knew all there was to know about bacteria. However, they have just found that bacteria have a mechanism that can store and pass on memories to future generations. The research was on the E. coli bacterium. This is one of the most well-studied organisms. Researchers wrote about how bacteria could form memories even though they lack a brain. They said bacteria can gather information from their environment, "and if they have encountered that environment frequently, they can store it and quickly access it later for their benefit".

Bacterial memory is different from human memory. It is more like our muscle memory. Our muscles have a sense of what to do next from having done it many times before. The researchers say bacterial memory is because of their levels of iron. A researcher said: "Early life was utilizing iron for a lot of cellular processes. Iron is...critical...in the evolution of life. It makes sense that cells would utilize it." He added that his research could help to fight bacterial diseases. He said: "The more we know about bacterial behaviour, the easier it is to combat them."

Sources:

https://www.earth.com/news/bacteria-form-memories-and-pass-them-on-to-future-generations/https://www.unilad.com/technology/space/whats-inside-earth-core-696460-20231123https://www.sciencealert.com/in-a-first-bacteria-seen-storing-memories-and-passing-them-on-for-generations

PHRASE MATCHING

From https://breakingnewsenglish.com/2311/231127-bacteria-memories-5.html

PARAGRAPH ONE:

- 1. Scientists perhaps thought they
- 2. bacteria have a
- 3. store and pass
- 4. The research was on the
- 5. one of the most well-
- 6. even though they lack
- 7. gather information from
- 8. quickly access it later

- a. on memories
- b. their environment
- c. for their benefit
- d. a brain
- e. knew all there was
- f. E. coli bacterium
- g. mechanism
- h. studied organisms

PARAGRAPH TWO:

- 1. Bacterial memory is different
- 2. It is more like
- 3. Our muscles have a sense of
- 4. having done it
- 5. because of their levels
- 6. utilizing iron for a lot of
- 7. help to fight
- 8. the easier it is

- a. many times before
- b. bacterial diseases
- c. our muscle memory
- d. cellular processes
- e. from human memory
- f. to combat them
- g. what to do next
- h. of iron

LISTEN AND FILL IN THE GAPS

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Scientists perhaps thought they (1) was to
know about bacteria. However, they have just found that bacteria
(2) that can store and pass on memories to
future generations. The research was on the E. coli bacterium. This
is one (3) well-studied organisms.
Researchers wrote about how bacteria could form memories even
though they (4) They said bacteria can
gather information from their environment, "and if
(5) that environment frequently, they can
store it and quickly access it later (6)".
Bacterial memory is different (7) It is more
like our muscle memory. Our muscles have
(8) what to do next from having done it
many times before. The researchers say bacterial memory is
because of their (9) A researcher said:
"Early life was utilizing iron for a lot of cellular processes. Iron
iscriticalin the (10) It makes sense that
cells would utilize it." He added that his research could help to
(11) He said: "The more we know about
bacterial behaviour, the easier it is (12)

PUT A SLASH (/) WHERE THE SPACES ARE

From https://breakingnewsenglish.com/2311/231127-bacteria-memories-5.html

Scientistsperhapsthoughttheyknewalltherewastoknowaboutbacteri a. However, they have just found that bacteria have a mechanism that ca nstoreandpassonmemoriestofuturegenerations. Theresearchwason the E. colibacterium. This is one of the most well-studied organisms. Res earcherswroteabouthowbacteriacouldformmemorieseventhoughth eylackabrain. They said bacteria can gather information from their envir onment,"andiftheyhaveencounteredthatenvironmentfrequently,th eycanstoreitandquicklyaccessitlaterfortheirbenefit".Bacterialmemo ryisdifferentfromhumanmemory. Itismorelike our musclememory. O urmuscleshaveasenseofwhattodonextfromhavingdoneitmanytimes before. The researchers say bacterial memory is because of their levels of the researchers as a second of the researchers as firon. Aresearchersaid: "Earlylifewasutilizingiron for alot of cellular proc esses.Ironis...critical...intheevolutionoflife.Itmakessensethatcellsw ouldutilizeit."Headdedthathisresearchcouldhelptofightbacterialdise ases. Hesaid: "Themoreweknowaboutbacterialbehaviour, the easierit istocombatthem."

MEMORIES SURVEY

From https://breakingnewsenglish.com/2311/231127-bacteria-memories-4.html

Write five GOOD questions about memories 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).

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WRITING

From https://breakingnewsenglish.com/2311/231127-bacteria-memories-5.html

Write about memories for 10 minutes. Read and talk about your partner	's paper.