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Level 2 – 20th July, 2020

Scientists attach a camera to a beetle

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<https://breakingnewsenglish.com/2007/200720-beetle-camera-2.html>

Contents

The Reading	2
Phrase Matching	3
Listening Gap Fill	4
No Spaces	5
Survey	6
Writing and Speaking	7
Writing	8

Please try Levels 0, 1 and 3. They are (a little) harder.

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THE READING

From <https://breakingnewsenglish.com/2007/200720-beetle-camera-2.html>

Scientists developed a tiny camera that can be put on a beetle. The camera records where the bug goes. This gives scientists a bug's-eye view of the world. The researchers say the camera will explore places never seen before. A researcher explained why the camera could be useful. He said: "Insects can traverse rocky environments, which is really challenging for robots to do at this scale. So this system can also help us out by letting us see...hard-to-navigate spaces." He said: "This is the first time that we've had a first-person view from the back of a beetle while it's walking around."

The scientists are from the University of Washington. Their camera is light enough for bugs to wear. It weighs just 250 grams* and can record five frames per second. A researcher said: "We have created a low-power, low-weight, wireless camera system that can capture...what's happening from an actual live insect." He said a big challenge was making the battery. It had to be small and light, with enough power to last a few hours. The researchers said no beetles were hurt in their tests. They said all the beetles "lived for at least a year" after the experiments finished.

* Error: The camera weighs 250 milligrams and not 250 grams.

Sources: <https://bgr.com/2020/07/16/coronavirus-spread-at-home-birthday-party-cluster/>
<https://www.bbc.com/news/technology-53445772>
<https://edition.cnn.com/2020/07/15/us/beetle-tiny-cameras-scli-scni-intl/index.html>

PHRASE MATCHING

From <https://breakingnewsenglish.com/2007/200720-beetle-camera-2.html>

PARAGRAPH ONE:

- | | |
|----------------------------------|------------------------|
| 1. The camera records where | a. a first-person view |
| 2. explore places never | b. environments |
| 3. Insects can traverse rocky | c. walking around |
| 4. challenging for robots to | d. seen before |
| 5. help us out | e. of a beetle |
| 6. the first time that we've had | f. do at this scale |
| 7. from the back | g. by letting us see |
| 8. while it's | h. the bug goes |

PARAGRAPH TWO:

- | | |
|---------------------------------|---------------------|
| 1. Their camera is light enough | a. in their tests |
| 2. It weighs | b. per second |
| 3. record five frames | c. finished |
| 4. It had to be small | d. for bugs to wear |
| 5. enough power to last | e. at least a year |
| 6. no beetles were hurt | f. and light |
| 7. all the beetles lived for | g. a few hours |
| 8. after the experiments | h. just 250 grams |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2007/200720-beetle-camera-2.html>

Scientists (1) _____ camera that can be put on a beetle. The camera records where (2) _____. This gives scientists a bug's-(3) _____ the world. The researchers say the camera will explore places (4) _____. A researcher explained why the camera could be useful. He said: "Insects can traverse rocky environments, which is really challenging for robots to do at this scale. So this system can also help us (5) _____ us see...hard-to-navigate spaces." He said: "This is the first time that we've had a first-person view from the back of a beetle (6) _____ around."

The scientists are from the University of Washington. Their camera (7) _____ for bugs to wear. It weighs just 250 grams and can record five (8) _____. A researcher said: "We have created a low-power, low-weight, wireless camera system (9) _____...what's happening from an actual live insect." He said a big challenge was (10) _____. It had to be small and light, with enough power to (11) _____ hours. The researchers said no beetles were hurt in their tests. They said all the beetles "lived (12) _____ a year" after the experiments finished.

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2007/200720-beetle-camera-2.html>

Scientists developed a tiny camera that can be put on a beetle. The camera records where the bug goes. This gives scientists a bug's-eye view of the world. The researchers say the camera will explore places never seen before. A researcher explained why the camera could be useful. He said: "Insects can traverse rocky environments, which is really challenging for robots to do at this scale. So this system can also help us out by letting us see... hard-to-navigate spaces." He said: "This is the first time that we've had a first-person view from the back of a beetle while it's walking around." The scientists are from the University of Washington. Their camera is light enough for a bug to wear. It weighs just 250 grams and can record five frames per second. A researcher said: "We have created a low-power, low-weight, wireless camera system that can capture... what's happening from an actual live insect." He said a big challenge was making the battery. It had to be small and light, with enough power to last a few hours. The researchers said no beetles were hurt in their tests. They said all the beetles "lived for at least a year" after the experiments finished.

BEETLES SURVEY

From <https://breakingnewsenglish.com/2007/200720-beetle-camera-4.html>

Write five GOOD questions about beetles 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) _____

