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**Level 2** – 29th July, 2018

## Scientists record the sounds of the Sun

**FREE** online quizzes, mp3 listening and more for this lesson here:

<https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-2.html>

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

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# THE READING

From <https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-2.html>

Have you ever thought about what the Sun sounds like? Scientists from the European Space Agency and NASA studied 20 years of data to try to listen to the Sun. They say the Sun produces a sound like a low, deep "heartbeat". The scientists used a special observatory to measure vibrations from the Sun. They then changed these vibrations into different sounds. The scientists will use these to find out what is happening inside the Sun. They will understand more about solar flares, chemical reactions and other things that happen inside the Sun.

The scientists explained how they created the sounds. Researchers turned data from space agencies into a "song". Dr Alex Young said: "We don't have straightforward ways to look inside the Sun...so using a star or the Sun's vibrations allows us to see inside of it." Dr Young continued: "Waves are travelling and bouncing around inside the Sun, and if your eyes were sensitive enough, they could actually see this." He added: "We are finally starting to understand the layers of the Sun and the complexity. That simple sound is giving us a probe inside a star. I think that's a pretty cool thing."

Sources: <https://www.space.com/41285-listen-to-the-sun.html>  
<http://www.sci-news.com/astronomy/sounds-sun-soho-06242.html>  
<https://phys.org/news/2018-07-sun.html>

# PHRASE MATCHING

From <https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-2.html>

## PARAGRAPH ONE:

- |                                |                          |
|--------------------------------|--------------------------|
| 1. thought about what          | a. from the Sun          |
| 2. try to listen               | b. flares                |
| 3. a sound like a low, deep    | c. to the Sun            |
| 4. measure vibrations          | d. inside the Sun        |
| 5. changed these vibrations    | e. "heartbeat"           |
| 6. find out what is happening  | f. the Sun sounds like   |
| 7. understand more about solar | g. inside the Sun        |
| 8. things that happen          | h. into different sounds |

## PARAGRAPH TWO:

- |                                    |                       |
|------------------------------------|-----------------------|
| 1. scientists explained how they   | a. ways               |
| 2. turned data from space agencies | b. the Sun            |
| 3. We don't have straightforward   | c. of the Sun         |
| 4. look inside                     | d. cool thing         |
| 5. the Sun's                       | e. around             |
| 6. bouncing                        | f. created the sounds |
| 7. understand the layers           | g. vibrations         |
| 8. I think that's a pretty         | h. into a "song"      |

# LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-2.html>

Have you ever thought (1) \_\_\_\_\_ Sun sounds like? Scientists from the European Space Agency and NASA studied 20 (2) \_\_\_\_\_ to try to listen to the Sun. They say the Sun produces a sound (3) \_\_\_\_\_, deep "heartbeat". The scientists used a special observatory (4) \_\_\_\_\_ from the Sun. They then changed these vibrations into different sounds. The scientists will use these (5) \_\_\_\_\_ what is happening inside the Sun. They will understand more about solar flares, (6) \_\_\_\_\_ other things that happen inside the Sun.

The scientists explained (7) \_\_\_\_\_ the sounds. Researchers (8) \_\_\_\_\_ space agencies into a "song". Dr Alex Young said: "We don't have straightforward (9) \_\_\_\_\_ inside the Sun...so using a star or the Sun's vibrations allows us to (10) \_\_\_\_\_ it." Dr Young continued: "Waves are travelling and bouncing around inside the Sun, and if your eyes were sensitive enough, they could actually see this." He added: "We are (11) \_\_\_\_\_ understand the layers of the Sun and the complexity. That simple sound is giving us a probe inside a star. I think that's a (12) \_\_\_\_\_."

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-2.html>

Have you ever thought about what the Sun sounds like? Scientists from the European Space Agency and NASA studied 20 years of data to try to listen to the Sun. They say the Sun produces a sound like a low, deep "heartbeat". The scientists used a special observatory to measure vibrations from the Sun. They then changed these vibrations into different sounds. The scientists will use these to find out what is happening inside the Sun. They will understand more about solar flares, chemical reactions and other things that happen inside the Sun. The scientist explained how they created the sounds. Researcher turned data from space agencies into a "song". Dr Alex Young said: "We don't have a straight forward way to look inside the Sun... so using a star or the Sun's vibrations allows us to see inside of it." Dr Young continued: "Waves are travelling and bouncing around inside the Sun, and if your eyes were sensitive enough, they could actually see this." He added: "We are finally starting to understand the layers of the Sun and the complexity. That simple sound is giving us a probe inside a star. I think that's a pretty cool thing."

# THE SUN'S SOUNDS SURVEY

From <https://breakingnewsenglish.com/1807/180729-sounds-of-the-sun-4.html>

Write five GOOD questions about The Sun's sounds 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) \_\_\_\_\_

*Scientists record the sounds of the Sun – 29th July, 2018*  
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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) \_\_\_\_\_

