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**Level 4** – 27th February 2023

## Scientists discover Earth has two cores

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

<https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

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Please try Levels 5 and 6. They are (a little) harder.

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# THE READING

From <https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

We know little about the centre of Earth. Geologists believed it had just one core – a hot mass of molten rock surrounded by a rock mantle. This is a ring between the earth's crust and core. The core is 2,900 km below Earth's surface. It has a radius of 3,485 km. Scientists believe there may be a second core. A geophysicist analyzed data from a 560-km-deep earthquake. It showed the possibility of a second core at the bottom of the mantle.

The geophysicist explained what intrigued her about Earth's core. She said: "There's still a lot we don't know about it. There's a lot more we can learn by using deep earthquakes." The geophysicist explained the importance of understanding more about the core. She said: "We want to know exactly how fast the mantle flows because that influences the evolution of the entire Earth. It affects how much heat the planet retains for how long."

Sources: <https://scitechdaily.com/deep-earthquakes-reveal-shocking-secrets-of-the-inner-earth/>  
<https://www.indy100.com/science-tech/earth-two-cores-scientists>  
<https://www.sciencealert.com/after-a-20-year-search-scientists-have-finally-found-earths-true-innermost-core>

# PHRASE MATCHING

From <https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

## PARAGRAPH ONE:

- |                               |                      |
|-------------------------------|----------------------|
| 1. We know little             | a. rock              |
| 2. Geologists believed it     | b. the mantle        |
| 3. a hot mass of molten       | c. Earth's surface   |
| 4. a ring between the earth's | d. had just one core |
| 5. The core is 2,900 km below | e. of 3,485 km       |
| 6. It has a radius            | f. of a second core  |
| 7. It showed the possibility  | g. crust and core    |
| 8. at the bottom of           | h. about the centre  |

## PARAGRAPH TWO:

- |                                    |                   |
|------------------------------------|-------------------|
| 1. The geophysicist explained what | a. we don't know  |
| 2. There's still a lot             | b. Earth          |
| 3. There's a lot more we           | c. how fast       |
| 4. understanding more              | d. retains        |
| 5. We want to know exactly         | e. evolution      |
| 6. that influences the             | f. intrigued her  |
| 7. the entire                      | g. can learn      |
| 8. how much heat the planet        | h. about the core |

# LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

We (1) \_\_\_\_\_ the centre of Earth. Geologists believed it had just one core - a (2) \_\_\_\_\_ molten rock surrounded by a rock mantle. This is a ring between the earth's (3) \_\_\_\_\_. The core is 2,900 km below Earth's surface. It (4) \_\_\_\_\_ of 3,485 km. Scientists believe there may be a second core. A geophysicist analyzed (5) \_\_\_\_\_ 560-km-deep earthquake. It showed the possibility of a second core at the bottom (6) \_\_\_\_\_.

The geophysicist explained (7) \_\_\_\_\_ about Earth's core. She said: "There's still a lot we don't know about it. There's a lot more we can (8) \_\_\_\_\_ deep earthquakes." The geophysicist (9) \_\_\_\_\_ of understanding more about the core. She said: "We want to know exactly how fast (10) \_\_\_\_\_ because that influences the evolution (11) \_\_\_\_\_ Earth. It affects how much heat (12) \_\_\_\_\_ for how long."

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

We know little about the centre of Earth. Geologists believed it had just one core – a hot mass of molten rocks surrounded by a rock mantle. This is a ring between the earth's crust and core. The core is 2,900 km below Earth's surface. It has a radius of 3,485 km. Scientists believe there may be a second core. A geophysicist analyzed data from a 560-km-deep earthquake. It showed the possibility of a second core at the bottom of the mantle. The geophysicist explained what intrigued her about Earth's core. She said: "There's still a lot we don't know about it. There's a lot more we can learn by using deep earthquakes." The geophysicist explained the importance of understanding more about the core. She said: "We want to know exactly how fast the mantle flows because that influences the evolution of the entire Earth. It affects how much heat the planet retains for how long."

# EARTH SURVEY

From <https://breakingnewsenglish.com/2302/230227-earths-core-4.html>

Write five GOOD questions about Earth 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<br>_____ | STUDENT 2<br>_____ | STUDENT 3<br>_____ |
|------|--------------------|--------------------|--------------------|
| 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) \_\_\_\_\_

