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Level 5 – 22nd August, 2021

Nuclear fusion test could start an energy revolution

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<https://breakingnewsenglish.com/2108/210822-nuclear-fusion-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/2108/210822-nuclear-fusion-5.html>

There has been an endless search to find sustainable energy sources. One source that has thus far eluded scientists is nuclear fusion. Generations of physicists have tried for many years to copy this reaction. Scientists in the USA say they recreated the power of the Sun for a fraction of a second. Powerful lasers blasted a tiny target to create a reaction that lasted just 100 trillionths of a second. It created 10 quadrillion watts of power. The power the scientists created is the equivalent of 6 per cent of all the energy from the Sun hitting Earth at any given moment.

Nuclear fusion powers the Sun. The website cnet.com said it is "a long-sought-after panacea" for energy and environmental challenges. Nuclear fusion could provide infinite, safe, clean and green power. It could also reverse environmental damage. Physicist Dr Debbie Callahan spoke about the breakthrough. She said it is a "huge advance" and a big step toward generating "a net-positive amount of energy". Futurism.com said: "The promise is as lucrative as it has ever been - an infinite supply of carbon-neutral energy without ever running the risk of a nuclear meltdown."

Sources: <https://www.cnet.com/news/get-20-off-an-entire-year-of-nordvpn-and-protect-your-online-activity-for-only-47-20/>
<https://www.yahoo.com/lifestyle/nuclear-fusion-breakthrough-could-unlock-215644282.html>
<https://futurism.com/scientists-edge-fusion-power-breakthrough>

PHRASE MATCHING

From <https://breakingnewsenglish.com/2108/210822-nuclear-fusion-5.html>

PARAGRAPH ONE:

- | | |
|--------------------------------|----------------------------|
| 1. There has been an endless | a. far eluded scientists |
| 2. find sustainable energy | b. all the energy |
| 3. One source that has thus | c. a tiny target |
| 4. tried for many years to | d. sources |
| 5. for a fraction | e. copy this reaction |
| 6. Powerful lasers blasted | f. trillionths of a second |
| 7. lasted just 100 | g. search |
| 8. equivalent of 6 per cent of | h. of a second |

PARAGRAPH TWO:

- | | |
|----------------------------------|--------------------|
| 1. Nuclear fusion powers | a. challenges |
| 2. a long-sought- | b. supply |
| 3. energy and environmental | c. the risk |
| 4. provide infinite, safe, clean | d. meltdown |
| 5. a net-positive amount | e. the Sun |
| 6. an infinite | f. of energy |
| 7. without ever running | g. after panacea |
| 8. a nuclear | h. and green power |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2108/210822-nuclear-fusion-5.html>

There has been (1) _____ to find sustainable energy sources. One source that has (2) _____ scientists is nuclear fusion. Generations of physicists have tried for many years to (3) _____. Scientists in the USA say they recreated the power of the Sun for (4) _____ a second. Powerful lasers (5) _____ target to create a reaction that lasted just 100 trillionths of a second. It created 10 quadrillion watts of power. The power the scientists created is the equivalent of 6 per cent of all the energy from the Sun hitting Earth at (6) _____.

Nuclear (7) _____ Sun. The website cnet.com said it is "a long-(8) _____" for energy and environmental challenges. Nuclear fusion could provide infinite, safe, clean and green power. It (9) _____ environmental damage. Physicist Dr Debbie Callahan spoke about the breakthrough. She said it is (10) _____ and a big step toward generating "a net-positive amount of energy". Futurism.com said: "The promise (11) _____ as it has ever been - an infinite supply of carbon-neutral energy without ever (12) _____ of a nuclear meltdown."

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2108/210822-nuclear-fusion-5.html>

There has been an endless search to find sustainable energy sources. One source that has thus far eluded scientists is nuclear fusion. Generations of physicists have tried for many years to copy this reaction. Scientists in the USA say they recreated the power of the Sun for a fraction of a second. Powerful lasers blasted a tiny target to create a reaction that lasted just 100 trillionths of a second. It created 10 quadrillion watts of power. The power the scientists created is the equivalent of 6 percent of all the energy from the Sun hitting Earth at any given moment. Nuclear fusion powers the Sun. The website cnet.com said it is "a long-sought-after panacea" for energy and environmental challenges. Nuclear fusion could provide infinite, safe, clean and green power. It could also reverse environmental damage. Physicist Dr Debbie Callahan spoke about the breakthrough. She said it is a "huge advance" and a big step toward generating "a net-positive amount of energy". Futurism.com said: "The promise is as lucrative as it has ever been - an infinite supply of carbon neutral energy without ever running the risk of a nuclear meltdown."

CLEAN ENERGY SURVEY

From <https://breakingnewsenglish.com/2108/210822-nuclear-fusion-4.html>

Write five GOOD questions about clean energy 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/2108/210822-nuclear-fusion-5.html>

Write about **clean energy** for 10 minutes. Read and talk about your partner’s paper.
