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**Level 0** – 2nd February 2023

## Car fumes can change the brain in 2 hours

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

<https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

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Please try Levels 1, 2 and 3. They are (a little) harder.

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# THE READING

From <https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

Air pollution can change our brain. It changes how parts of our brain connect with other parts. Research shows this can happen in two hours. A researcher was surprised by his research. Scientists always thought the brain was safe from the harmful effects of air pollution. Now he says air pollution affects the brain.

The study was on 25 adults. They breathed car fumes in a laboratory. Scientists took brain scans of them for two hours. The scans showed that there were fewer connections between the networks we use to think. Another professor worried about how traffic pollution can change the networks in our brain.

Sources: <https://www.sciencealert.com/inhaling-car-fumes-can-change-a-brains-connectivity-in-just-2-hours-study-finds>  
<https://neurosciencenews.com/air-pollution-functional-connectivity-22355/>  
<https://ca.news.yahoo.com/breathing-exhaust-fumes-impairs-human-brains-within-two-hours-154151191.html>

# PHRASE MATCHING

From <https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

## PARAGRAPH ONE:

- |                               |                       |
|-------------------------------|-----------------------|
| 1. Air pollution can          | a. effects            |
| 2. parts                      | b. in two hours       |
| 3. connect                    | c. the brain was safe |
| 4. this can happen            | d. with other parts   |
| 5. A researcher was surprised | e. affects the brain  |
| 6. Scientists always thought  | f. change our brain   |
| 7. the harmful                | g. of our brain       |
| 8. air pollution              | h. by his research    |

## PARAGRAPH TWO:

- |                                |                  |
|--------------------------------|------------------|
| 1. The study was on            | a. worried       |
| 2. They breathed car           | b. scans of them |
| 3. in a                        | c. to think      |
| 4. Scientists took brain       | d. fumes         |
| 5. The scans showed that there | e. in our brain  |
| 6. the networks we use         | f. 25 adults     |
| 7. Another professor           | g. were fewer    |
| 8. change the networks         | h. laboratory    |

# LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

Air pollution (1) \_\_\_\_\_ brain. It changes how parts of our brain connect (2) \_\_\_\_\_. Research shows (3) \_\_\_\_\_ in two hours. A researcher was surprised (4) \_\_\_\_\_. Scientists always thought the (5) \_\_\_\_\_ from the harmful effects of air pollution. Now he says air pollution (6) \_\_\_\_\_.

The (1) \_\_\_\_\_ 25 adults. They breathed car fumes (2) \_\_\_\_\_. Scientists took brain scans of (3) \_\_\_\_\_ hours. The scans showed that (4) \_\_\_\_\_ connections between the networks we (5) \_\_\_\_\_. Another professor worried about how traffic pollution can change the networks (6) \_\_\_\_\_.

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

Air pollution can change our brain. It changes how parts of our brain connect with other parts. Research shows this can happen in two hours. A researcher was surprised by his research. Scientists always thought the brain was safe from the harmful effects of air pollution. Now he says air pollution affects the brain. The study was on 25 adults. They breathed car fumes in a laboratory. Scientists took brain scans of them for two hours. The scans showed that there were fewer connections between the networks we use to think. Another professor worried about how traffic pollution can change the networks in our brain.

# CAR FUMES SURVEY

From <https://breakingnewsenglish.com/2302/230202-car-fumes-0.html>

Write five GOOD questions about car fumes 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) \_\_\_\_\_

