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Level 5 – 9th May, 2019

Scientists say cold air rises

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<https://breakingnewsenglish.com/2005/200509-cold-air-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/2005/200509-cold-air-5.html>

We learn at school that warm air rises and cool air sinks. This is a basic principle of science. A study from the University of California found there are circumstances in which cool air rises. Researchers found that in tropical areas, cold air rises because of the lightness of water vapour. In warm, humid climates, water particles become more buoyant and can help cool air rise. The lead researcher said: "Water vapour has a buoyancy effect which helps release the heat of the atmosphere to space and reduce the degree of warming. Without this lightness...climate warming would be even worse."

Scientists say humid air is lighter than dry air at the same temperature and pressure. This is called the vapour buoyancy effect. Cooler air containing water droplets rises to form clouds and thunderstorms. Rain has a cooling effect in tropical areas. More research is needed to find out the effects rising cool air has on limiting global warming. A researcher said: "Now that we understand how the lightness of water regulates tropical climate, we plan to study whether global climate models accurately represent this effect."

Sources: <https://www.sciencedaily.com/releases/2020/05/200506162159.htm>
<https://phys.org/news/2020-05-cold-air-riseswhat-earth-climate.html>
<https://advances.sciencemag.org/content/6/19/eaba1951>

PHRASE MATCHING

From <https://breakingnewsenglish.com/2005/200509-cold-air-5.html>

PARAGRAPH ONE:

- | | |
|--------------------------------|----------------------|
| 1. We learn at school that | a. air rises |
| 2. This is a basic principle | b. of warming |
| 3. circumstances in which cool | c. buoyant |
| 4. the lightness of water | d. even worse |
| 5. water particles become more | e. of science |
| 6. release the heat | f. warm air rises |
| 7. reduce the degree | g. vapour |
| 8. climate warming would be | h. of the atmosphere |

PARAGRAPH TWO:

- | | |
|-------------------------------------|---------------------|
| 1. humid air is lighter | a. models |
| 2. at the same temperature | b. buoyancy effect |
| 3. This is called the vapour | c. thunderstorms |
| 4. Cooler air containing water | d. cool air has |
| 5. form clouds and | e. than dry air |
| 6. the effects rising | f. tropical climate |
| 7. the lightness of water regulates | g. and pressure |
| 8. global climate | h. droplets |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2005/200509-cold-air-5.html>

We learn at school that (1) _____ and cool air sinks. This is a (2) _____ science. A study from the University of California found there are circumstances in which cool air rises. Researchers found that (3) _____, cold air rises because of the lightness of water vapour. In warm, humid climates, water particles (4) _____ and can help cool air rise. The lead researcher said: "Water vapour has a buoyancy effect which helps (5) _____ of the atmosphere to space and reduce the degree of warming. Without this lightness...climate warming would (6) _____."

Scientists say (7) _____ lighter than dry air at the same temperature and pressure. This is called the vapour buoyancy effect. Cooler air containing water droplets (8) _____ clouds and thunderstorms. Rain has a cooling (9) _____ areas. More research is needed to find out the (10) _____ air has on limiting global warming. A researcher said: "Now that we understand how (11) _____ water regulates tropical climate, we plan to study whether global climate models accurately (12) _____."

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2005/200509-cold-air-5.html>

We learn at school that warm air rises and cool air sinks. This is a basic principle of science. A study from the University of California found there are circumstances in which cool air rises. Researchers found that in tropical areas, cold air rises because of the lightness of water vapour. In warm, humid climates, water particles become more buoyant and can help cool air rise. The lead researcher said: "Water vapour has a buoyancy effect which helps release the heat of the atmosphere to space and reduces the degree of warming. Without this lightness... climate warming would be even worse. "Scientists say humid air is lighter than dry air at the same temperature and pressure. This is called the vapour buoyancy effect. Cooler air containing water droplets rises to form clouds and thunderstorms. Rain has a cooling effect in tropical areas. More research is needed to find out the effects of rising cool air on limiting global warming. A researcher said: "Now that we understand how the lightness of water regulates tropical climate, we plan to study whether global climate models accurately represent this effect."

COLD AIR SURVEY

From <https://breakingnewsenglish.com/2005/200509-cold-air-4.html>

Write five GOOD questions about cold air 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) _____

