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Ready-to-Use English Lessons by Sean Banville

Level 4
Scientists turn CO2 emissions into stone

12th June, 2016

http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Contents

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

THE READING

From http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Scientists have found a simple way to deal with carbon dioxide emissions – turn them back into stone. They pumped 220 tons of CO2 underground into volcanic rock. It reacted with the rock and changed into a substance like limestone. The team were surprised at how fast this happened. Dr Juerg Matter said: "Of our 220 tons of injected CO2, 95 per cent was converted to limestone in less than two years….It was a huge surprise…and we thought, 'Wow!'"

The scientists hope their research will go large scale to help the problem of CO2 in the atmosphere and a warming planet. It could be a key method in carbon capture and storage (CCS). Earlier CCS techniques also involved injecting CO2 underground, but it often leaked back into the atmosphere. Dr Matter enthusiastically said: "We need to deal with rising carbon emissions and this is the ultimate permanent storage – turn them back to stone."

Sources: http://www.**bbc.com**/news/science-environment-36494501
http://www.**theguardian.com**/environment/2016/jun/09/co2-turned-into-stone-in-iceland-in-climate-change-breakthrough
http://www.**sciencealert.com/**scientists-have-figured-out-how-to-turn-co2-into-solid-rock-within-months

PHRASE MATCHING

From http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

PARAGRAPH ONE:

1. Scientists have found a	a. less than two years
2. deal	b. surprise
3. They pumped 220 tons	c. rock
4. volcanic	d. fast this happened
5. a substance	e. simple way
6. surprised at how	f. like limestone
7. converted to limestone in	g. with carbon dioxide
8. It was a huge	h. of CO2 underground

PARAGRAPH TWO:

1. a warming	a. into the atmosphere
2. It could be a key	b. and storage
3. carbon capture	c. storage
4. earlier CCS	d. method
5. injecting	e. carbon emissions
6. leaked back	f. planet
7. rising	g. CO2 underground
8. the ultimate permanent	h. techniques

LISTEN AND FILL IN THE GAPS

From http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Scientists have found a (1) _____ with carbon dioxide emissions – turn them (2) _____. They pumped 220 tons of CO2 underground (3) _____. It reacted with the rock and changed (4) _____ like limestone. The team were surprised at how fast this happened. Dr Juerg Matter said: "Of our 220 tons of injected CO2, 95 per cent (5) _____ limestone in less than two years….It was (6) _____ …and we thought, 'Wow!'"

The scientists hope their research (7) _____ to help the problem of CO2 in the atmosphere and (8) _____. It could be a key method in carbon (9) _____ (CCS). Earlier CCS techniques also (10) _____ CO2 underground, but it often leaked back into the atmosphere. Dr Matter enthusiastically said: "We need to (11) _____ carbon emissions and this is the ultimate (12) _____ – turn them back to stone."

PUT A SLASH (/)WHERE THE SPACES ARE

From http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Scientistshavefoundasimplewaytodealwithcarbondioxideemissions–turnthembackintostone.Theypumped220tonsofCO2undergroundintovolcanicrock.Itreactedwiththerockandchangedintoasubstancelikelimestone.Theteamweresurprisedathowfastthishappened.DrJuergMattersaid:"Ofour220tonsofinjectedCO2,95percentwasconvertedtolimestoneinlessthantwoyears….Itwasahugesurprise…andwethought,'Wow!"Thescientistshopetheirresearchwillgolargescaletohelptheproblemof CO2intheatmosphereandawarmingplanet.Itcouldbeakeymethodincarboncaptureandstorage(CCS).EarlierCCStechniquesalsoinvolvedinjectingCO2underground,butitoftenleakedbackintotheatmosphere.DrMatterenthusiasticallysaid:"Weneedtodealwithrisingcarbonemissionsandthisistheultimatepermanentstorage–turnthembacktostone."

CO2 SURVEY

From http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Write five GOOD questions about CO2 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 http://www.breakingnewsenglish.com/1606/160612-co2-emissions-4.html

Write about **CO2** for 10 minutes. Read and talk about your partner's paper.