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Carbon dioxide at record high level

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The level of carbon dioxide (CO2) in the atmosphere is now at a record high. An American weather station in Hawaii recorded the new high on the 9th of

May. It found CO2 levels were at 400 parts per million (ppm). The last time CO2 was at this level was five million years ago. This was when there were no humans on the Earth. Scientists say the 400ppm level is a warning sign. They say we must do more to stop this number getting bigger. However, scientist James Butler said he thought CO2 levels would keep rising. He warned: "In eight to nine years, we will probably have seen the last CO2 reading under 400ppm." He told reporters that even at the South Pole, CO2 would be above 400ppm.

Carbon dioxide is one of the gases that create global warming. Just one CO2 molecule can stay in the atmosphere for hundreds of years. Pieter Tans, one of the scientists measuring CO2 levels, said human activity is making the Earth warmer. He said that, "the burning of coal, oil, and natural gas is driving the acceleration". He pointed out that 300 years ago, CO2 levels were around 280ppm. He added that 800,000 years ago, they were at 180ppm. Another scientist, Dr Ralph Keeling, warned that CO2 is warming the Earth to dangerous levels. He is worried about arctic ice melting, causing sea levels to rise. This will put billions of people in danger. He said: "It takes a long time to melt ice, but we're doing it. It's scary."

Sources: BBC / ClimateCentral.org

Writing

Global warming is the biggest problem in the world. Discuss.

Chat

Talk about these words from the article.

CO2 / atmosphere / five million years ago / warning sign / scientist / South Pole / global warming / human activity / natural gas / arctic ice / sea levels / melt ice

True / False

- A weather station in Peru found high levels of CO2 in the atmosphere. T / F
- b) The level of CO2 was at 400 parts per million.T / F
- c) The last time the Earth saw this level was 5 million years ago. T / F
- d) The level of CO2 at the South Pole will always be under 280. T / F
- e) One molecule of CO2 stays in the atmosphere for around 7 years. T / F
- f) A scientist said humans are not making the Earth warmer. T / F
- g) Levels of CO2 were under 300, 300 years ago. T / F
- h) A scientist said it was scary that the arctic ice was melting. T / F

Synonym Match

2

- 1. level a. increasing
 - high b. over
- 3. humans c. at risk
- 4. rising d. amount
- 5. above e. speeding up
- 6. create f. frightening
- 7. driving g. produce
- 8. acceleration h. record
- 9. in danger i. pushing
 -). scary j. people

Discussion - Student A

- a) Are you worried about global warming?
- b) What do you do every day to reduce CO2?
- c) What more could you do?
- d) Do you think people worry or care about the CO2 level being 400ppm?
- e) When will people really start to worry about global warming?
- f) What causes global warming?
- g) What do you think of scientists who say human activity does not create global warming?
- h) Can we do anything to keep CO2 levels under 400ppm?

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Phrase Match

- 1. weather
- 2 when there were no
- 3. a warning
- 4. he thought CO2 levels
- 5. even at the South Pole,
- 6. one of the gases that
- 7. natural gas is driving
- 8. CO2 is warming the Earth
- 9. This will put billions
- 10. It takes a long time

Discussion - Student B

- a) How much pollution is there in your town?
- b) What do you think of giant oil companies?
- c) Can an oil company be green?
- d) What will happen if the Earth gets warmer and warmer?
- e) Which countries are most responsible for global warming?
- f) What kind of danger will billions of people be in if sea levels rise?
- g) Is global warming the biggest problem on Earth?
- h) What questions would you like to ask a global warming expert?

Spelling

- 1. CO2 in the mepaotehrs
- 2. teerwah station
- 3. <u>ntstecisis</u> say...
- 4. a rwinnag sign
- 5. CO2 levels would keep sining
- 6. He told sretrepro...
- 7. gases that create global aiwrnmg
- 8. one CO2 uelmloce
- 9. <u>enusmagir</u> CO2 levels
- 10. Inutaar gas
- 11. <u>ouergasnd</u> levels
- 12. It's cyras

Answers - Synonym Match

r	1	1		
1. d	2. h	3. j	4. a	5. b
6. g	7. i	8. e	9. c	10. f

- a. sign
- b. would keep rising
- c. of people in danger
- d. create global warming
- e. humans on the Earth
- f. to melt ice
- q. station
- h. CO2 would be above 400ppm
- i. the acceleration
- i. to dangerous levels

Role Play

Role A – Human warming scientist

You think human activity causes global warming.
Everyone on Earth must change how we live so we do not produce CO2. Tell the others three things we must do. You totally disagree with the other scientist and the oil company CEO. Tell them why they are wrong. You agree with the penguin.

Role B – Natural warming scientist

You think human activity is not the reason for global warming. Tell the others three reasons why. You believe it is natural the Earth is getting warmer. You don't think anyone is in danger. You think it is OK to keep using gas, oil, coal, etc. You know scientists can protect the Earth.

Role C – Oil company CEO

You are tired of scientists warning about global warming. You are angry because people get scared. They also start using less oil and gasoline. Your company is very green. Tell the others 3 reasons why. Disagree with everything the human warming scientist says. Also, if the ice melts, penguins can easily find a new home.

Role D - Penguin

You are very, very, very angry with humans. Tell the lothers three reasons why. They only care about loney. Oil companies want profits and do not care loabout the environment. Scientists who say human locativity does not warm the earth are crazy. You want loal oil production to stop immediately.

Speaking

Rank these and share your rankings with your partner. Put the most dangerous at the top. Change partners often and share your rankings.

- global warming
- water wars
- pollution
- cybercrime
- chemical weapons
- · extinction of species
- overpopulation
- killer viruses

Answers - True False

a F b T c T d F e F f F g T h T

Answers to Phrase Match and Spelling are in the text.