

# ALL MIXED UP



Professor Polar Bear slipped and fell on the ice on his way to class. Now, all his note cards for his global warming presentation are mixed up! Can you help him put them back in order in time for his presentation?

HINT: Visit the ARM Climate Research Facility Education Study Hall for help finding the answers: <http://education.arm.gov/studyhall.stm>.

1. This is the result of a rise in the average temperature of the earth. In the last 100 years, the average temperature rose less than 1 degree.

BALLOG MANWIRG

1 2 3 4 5 6      7 8 9 10 11 12 13

2. These gases absorb energy emitted from the earth and prevent it from going back out into space, thus causing global warming.

HORSENGEEU SASEG

14 15 16 17 18 19 20 21 22 23      24 25 26 27 28

3. These are a very important piece of the global warming puzzle.

SOLDUC

29 30 31 32 33 34

4. This is not only a greenhouse gas but also shields us from ultraviolet light.

ZOONE

35 36 37 38 39

5. These occur when global temperatures fall and sheets of ice build up from snowfall accumulations over long periods of time.

CIE SEGA

40 41 42      43 44 45 46

6. A naturally occurring greenhouse gas that is made up of one molecule of carbon and four molecules of hydrogen. It is odorless, colorless, and it is lighter than air.

TEANHEM

47 48 49 50 51 52      \_\_\_\_\_

7. Studying these reveals climatic information back to more than 10,000 years ago and provides us with annual and seasonal changes in climate.

ERET GRINS

53 54 55 56      57 58 59 60 61

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8. To understand what is happening today and what might happen tomorrow, a scientist makes this (or an educated guess) about what is going on.

SPHEOTYHIS

\_\_\_\_\_  
62 63 64 65 66 67 68 69 70 71

9. The most effective, fastest changing, and least understood of the greenhouse gases. This is a powerful greenhouse gas; and it is the dominant greenhouse gas.

REWAT RAVOP

\_\_\_\_\_  
72 73 74 75 76      77 78 79 80 81

10. Global warming is primarily a result of the burning of these and deforestation, which are both manmade sources.

SOFSIL LESUF

\_\_\_\_\_  
82 83 84 85 86 87      88 89 90 91 91

11. The most common greenhouse gas; it accounts for 64 percent of the total absorption of infrared energy by greenhouse gases.

OBCRAN DEXIODI

\_\_\_\_\_  
92 93 94 95 96 97      98 99 100 101 102 103 104

12. You can help control global warming by saving energy – find out how by filling in the blanks using the numbers above!

\_\_\_\_\_  
9 16 33 21 29 17      15 23 32 26 27      5 18 98      54 39 29 63 92 30 39

In Kansas, tornadoes often hit hard and without warning. In one case, a house was completely blown away, leaving only the foundation and first floor. A silver-haired farm lady was seen sitting dazed, in a bathtub, the only part of the house left above the floor. The rescue squad rushed to her and found her unhurt. She was sitting there in the tub, talking to herself.

"It was the most amazing thing... it was the most amazing thing," she kept repeating dazedly.

"What was the most amazing thing, Ma'am?" asked one of the rescuers.

"I was visiting my daughter here, taking a bath, and all I did was pull the plug, and dog-gone-it if the whole house didn't suddenly drain away."