

an inconvenient truth

A GLOBAL WARNING

1. When was the introductory photo taken? During what space mission was it taken?
2. The narrator of this program identifies himself by saying that he “used to be the next president of the United States.” Who is he?
3. What is the title given to the photo of the Earth seen here? What movement started 18 months after this photo was taken?
4. When was the only photo of the entire Earth lit up taken?
5. 3000 satellite in images were stitched together to create what type of view of the Earth?
6. Who said, “What gets us into trouble is not what we don’t know, it’s what we know for sure that just ain’t so”?
7. If there was a wooden globe with a thin layer of varnish on it, what does the varnish represent?
8. The atmosphere is being thickened by _____, increasing the amount of infrared radiation being trapped by the atmosphere.
9. Who was the professor that Al Gore had in college that was conducting a study that measured the amount of carbon dioxide in the atmosphere?
10. How were the measurements taken?
11. Where were the weather balloons released from?
12. What is the trend of the data collected over the first 10 years of this experiment?
13. What year was the Kyoto Agreement signed?
14. What real world effect of global warming is happening at Mount Kilimanjaro in Africa?
15. When is it predicted that the glaciers at Glacier National Park in the USA will be gone?
16. What percentage of the world’s population receives their drinking water from glacial melt?
17. Scientists collect data about the atmosphere from glaciers by drilling ice cores. What did the barrier between the dirty ice and the clear ice represent?
18. How do the temperature and carbon dioxide graphs compare? Are they similar or different?
19. The CO2 levels had never gone above 300 ppm during the last _____ years.
20. Where are the CO2 levels now?
21. Where are they predicted to be in 50 years if unrestricted fossil fuel usage continues?
22. What are two of the places that Al Gore traveled to in order to understand environmental issues?
23. When have the 10 hottest years on record occur?
24. How many cities in the West set records for high temperatures in 2005? What city in the Southeast also set a high temperature record?
25. What does warming the temperature of the ocean cause?
26. What occurred in the south Atlantic that scientists thought was impossible?
27. An increase in temperature cause more rain, but at less frequent intervals. How much rain did Mumbai, India receive in 24 hours?
28. What happens to the distribution of water on the planet when temperatures increase?
29. What happened to Lake Chad in Africa over the last 40 years?
30. High temperatures increase evaporation of water from the oceans and from the _____.
31. The thawing of what is causing “drunken trees” and building collapses?
32. How is global warming effecting polar bears?
33. The Earth’s climate is described as “non-linear.” What is meant by this description?
34. What is the Earth’s current average global temperature?
35. If the average global temperature were to increase by just 5°F, what would the effect be at the equator? And at the poles?

36. In the diagram of the ocean conveyor belt, the _____ arrows represent warm surface water currents and the _____ arrows represent cold depth currents.
37. How fast is the cold, dense, salty water sinking in the North Atlantic Ocean
38. At the end of the last ice age, a large pool of fresh water formed behind an ice dam in North America. When the ice dam broke, this water poured into the Atlantic Ocean and _____ the conveyor system pump and heat transfer system.
39. How quickly did Europe enter into another ice age after the fresh water flowed into the Atlantic Ocean?
40. In the Netherlands, a species of bird used to have its chicks hatch in conjunction with the arrival of caterpillars that were used as a food source. What has happened to the timing of the caterpillars and the hatching of the chicks?
41. As the number of days of frost decrease, what happens to the number of invasive species?
42. How does frost help keep diseases under control?
43. There are many examples of diseases that have been increasing in frequency due to global warming. What are 2 of the diseases?
44. Species loss is now _____ times greater than the background figures.
45. In 1978, one of Al Gore's friends warned that we should watch out for break ups of ice shelves in _____ because it would mean a dangerous warming trend is underway.
46. What happened to the Larsen-B ice shelf starting January 31, 2002 and took only 35 days?
47. This uncorked the land-based ice shelf and it is now moving toward the shoreline and _____ into the ocean.
48. When water-based glaciers melt, the water level _____. But when land-based glaciers melt, the water level _____ worldwide.
49. If either the ice on Greenland or the ice in Western Antarctica were to melt, how much would the sea level rise?
50. Seasonal melt of glacial ice and creations of moulins is normal. However, the amount of ice melt in Greenland has done what since 1992?
51. If the ice on Greenland were to completely melt, what are at least 2 places that would be impacted by the raising sea levels?
52. We are witnessing an unprecedented and massive collision between our civilization and the _____.
53. What is the current population of the Earth?
54. What percentage of carbon dioxide in the atmosphere comes from burning/forest fires?
55. What is causing the Aral Sea shoreline to shrink?
56. The U.S. is responsible for _____% of global warming contributions, more than Australia, Central and South America, Russia, Japan, Canada, the Middle East and Africa combined.
57. There are many people who say that global warming isn't an issue, but this is a misconception. Who is responsible for this misconception?
58. Reviews of peer-reviewed articles in scientific journals showed _____% disagree with global warming, while articles from other media such as newspapers and popular magazines showed that _____% disagreed with global warming.
59. In the cartoon, what is balancing with the Earth?
60. Why can't a car built in the U.S. be sold in China?
61. "Humanity already _____ the fundamental scientific, technical and industrial know-how to solve the carbon and climate problems..." -Stephen Pacala and Robert Socolow, Science, August 13, 2004
62. What are the only two developed nations that have not passed the Kyoto Agreement?
63. In the photo taken from 4 Billion miles out into space, what is the pale blue dot?
64. What questions may be asked by future generations?
65. What are 3 things that you can do to reduce your personal contribution to the carbon dioxide emissions and global warming?