**An Inconvenient Truth Movie Questions**

1. Who is Al Gore, and what is his message with this movie?
2. What is Earth Rise, and what effects did it have on our planet?
3. From prior knowledge, why do South America and Africa no longer side-by-side?
4. Why does Al Gore say our atmosphere vulnerable to global warming?
5. Draw a picture showing how the Greenhouse Effect works.
6. Why is the Greenhouse Effect, to a certain extent, a good thing?
7. What is happening that could be problematic?
8. The cartoon depicts dropping ice cubes in the middle of the ocean to help global warming, why does ice actually help prevent the effects of global warming? (prior knowledge)
9. Draw the Greenhouse Gas (CO2 specifically) curve, as depicted by Roger Revelle (Al Gore’s professor).
10. Why did the researchers choose the Pacific Ocean to conduct their experiment?
11. What is the general trend of the data Roger Revelle created for Greenhouse Gases?
12. As Northern Hemisphere tilted toward sun (spring, summer), vegetation in this half are active, there is \_\_\_\_ photosynthesis and therefore \_\_\_\_\_\_ the amount of CO2 in the atmosphere.
13. As the Northern hemisphere tilts away from the sun (fall/winter), vegetation is less active, there is \_\_\_\_\_ photosynthesis and therefore \_\_\_\_\_ the amount of CO2 in the atmosphere.
14. How has Mt. Kilimanjaro changed in the past 30 years?
15. Why will people in Himalayan mountain range area face major difficulties from global warming?
16. What does the ice core sample measure?
17. In the past 650,000 years, CO2 levels never went above \_\_\_\_\_ppm.
18. What is the correlation between temperature and CO2?
19. What is the primary reason why CO2 levels will rise to staggering levels in 50 years?
20. When were the hottest ten years?
21. How are ocean temperatures changing? What effect does this have?
22. Which 2005 Hurricane does Al Gore think was directly related to the effects of global warming?
23. Global warming means more \_\_\_\_\_\_ in places like India, but also more \_\_\_\_\_ in places like Darfur.
24. Global warming increases precipitation worldwide, but also \_\_\_\_\_\_\_\_\_\_\_\_ this precipitation.
25. What has happened to Lake Chad over the past few decades? Where is the water going?
26. What is the “Canary in a Coal Mine” that Al Gore is referring to?
27. Why are the trees called “drunken” trees? (also, why are homes collapsing in this region?)
28. What has happened to the ice thickness in the past few decades? What will eventually happen to this ice?
29. What happens to sunlight that hits ice? How does this differ from when it hits the ocean?
30. The ice cap acts like a giant \_\_\_\_\_\_\_\_\_\_ (albedo effect).
31. What two currents help regulate global temperatures?
32. If the temp increased by 1 degree at the equator, how does that effect temps at the poles?
33. In the ocean conveyor belt picture, what do the red arrows represent? W hat about the blue arrows?
34. What happens when the “water pump” in the North Atlantic stops?
35. Why were caterpillars emerging earlier in the year? What effect does this have on the ecosystem?
36. What types of organisms are filling the ecological niches as temperatures get warmer (give one example)?
37. Give two examples of “new diseases” that have become problematic as a result of global warming.
38. What is happening to the Larsen B ice shelf in Antarctica?
39. How is land ice different than floating ice? Why is land ice more of a concern?
40. Sea level would rise \_\_\_\_\_ feet if Greenland melted.
41. The melting of this ice could give rise to \_\_\_\_\_ million refugees.
42. What does China have a lot of that could contribute to this epidemic?
43. What types of countries are feeling the effects of population growth?
44. Where does 30% of CO2 released into the atmosphere come from? Why does this practice occur?
45. What was the Aral Sea used for? What does the sea look like now?
46. Which country clearly contributes the most to global warming?
47. Using the frog example, why does Al Gore feel like we are not reacting to global warming?
48. How many scientists believed we were NOT causing global warming? How does this differ from popular press articles?
49. What two things do we supposedly need to “balance?” (this is a misconception)
50. How do fuel efficiency standards compare between the US and China?
51. What advanced nations have NOT ratified the Kyoto Protocol? (this protocol promotes CO2 regulations)
52. What does Al Gore believe to be the only solution to the global warming crisis (hint: this was done before with the stratospheric Ozone layer)