

## “Six Degrees Could Change the World” Viewing Guide

Name: \_\_\_\_\_

Period: \_\_\_\_\_

1. Who is the narrator of this film?
2. What was Black Christmas?
3. What is the driest continent on the planet?
4. Six degrees Celsius is the equivalent of \_\_\_\_\_ degrees Fahrenheit.
5. When did the last ice age occur?
6. According to James Hanson of NASA, CO<sub>2</sub> levels of 450 parts per million is “the dangerous level.” We are already at \_\_\_\_\_ parts per million.
7. What types of changes may occur if the Earth warms one degree from its current temperatures?
8. How have cattle ranchers in Nebraska been affected by the recent drought?
9. What percentage of the Earth’s energy starts as a fossil fuel?
10. How many cheeseburgers does the average American eat every week?
11. If the world warms by two degrees, what types of changes are possible?
12. What recently happened to two large sections of the Great Barrier Reef due to the warming of ocean temperatures?

13. How long did it take nature to make the Great Greenland Ice Sheet?
14. What will be the impact of Greenland's ice sheet melting?
15. How have the sled dogs in Ilulissat been effected by the climate change?
16. What are moulins?
17. True or false? James Hansen believes that it is already too late to save the Arctic.
18. How much would the Earth's temperature have to rise to reaching a "tipping point?"
19. What types of changes would we likely see in a world where the temperature is three degrees warmer?
20. Describe Europe's weather during the summer of 2003.
21. What are many of the roofs in Paris made of?
22. How many people died from Europe's heat wave in 2003?
23. How was photosynthesis altered by the European heat wave of 2003?
24. Where is 20 percent of the world's oxygen produced?
25. How much of the Amazon's rain forest burned due to the drought of 2005?
26. What will be the result if "positive feedbacks" kick in?
27. From what do hurricanes derive the source of their power?

28. In what year did Hurricane Katrina rock New Orleans?
29. What are your thoughts? Are more Katrina type hurricanes on the horizon?
30. Hurricane Katrina was a Category \_\_\_\_\_ hurricane.
31. What would probably happen to Venice if the climate were to rise by four degrees?
32. What is the "holiest" river in India?
33. Name the glaciers which are receding at the fastest rate in the world.
34. At the current rate of loss, when will the glaciers of the Himalayas disappear?
35. True or false? Most of New York City's infrastructure is below ground.
36. How many massive sea gates would NYC have to build to protect itself from a four degree increase?
37. Speculate what might happen if the Earth's temperatures rise by five degrees?
38. What has been called the "Doomsday Scenario?"
39. By what year do we likely need to peak global emissions?
40. Explain what "vampire loads" are?
41. What percentage of the world's global greenhouse gases come from cars?
42. How many new cars hit the road each day?

43. What are some of the solutions to reducing carbon emissions?

44. What likely caused the dinosaurs to disappear? Why is this ironic?

45-50. What are your thoughts about climate change? Do you believe that anthropogenic global warming is taking place? (One paragraph please!)