

## **An Inconvenient Truth: A Global Warming**

### Questions

1. What type of radiation is given off by the Earth?
2. Why is it important that Earth trap some of this radiation?
3. What do greenhouse gases (CO<sub>2</sub>) do to the atmosphere?
4. Who was one of the first scientists to realize the effects of CO<sub>2</sub> in the atmosphere?
5. When did he do this?
6. How was it measured?
7. Where?
8. Why does a graph of CO<sub>2</sub> emissions through time have annual fluctuations that correspond with the seasons?
9. Why are glaciers in the Himalayas so important?
10. How can scientists tell what CO<sub>2</sub> levels were like in the past?
11. How many years of record are preserved in the Antarctic ice core?
12. What is the highest concentration of CO<sub>2</sub> in the past 650,000 years?
13. Is it higher or lower than that today? By about how much?

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14. Describe the relationship between CO<sub>2</sub> concentration and temperature.
15. Critical thinking question: Do you agree with Al Gore when he says this is a moral issue? Is it a political issue? Both? Neither? Why or why not?
16. What is the hottest year on record?
17. What happens when the oceans get warmer?
18. During a hurricane, when the temperature of the ocean water has increased, what happens to the moisture and wind velocity?
19. How does global warming cause both flooding and drought?
20. What is happening to buildings that have been constructed on permafrost? Why?
21. What is happening right now to the Arctic ice cap?
22. List one reason mentioned in the film about why this is important.
23. What happened when freshwater entered the ocean conveyor belt in North America?
24. How does global warming cause changes in ecosystems?
25. What is the difference between sea-based ice and land-based ice? What is one consequence to humans because of this difference?
26. What are the three factors that affect and transform our relationship to the Earth?
27. Which country contributes the most to global warming?

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28. Is there disagreement among scientists regarding global warming?
  
29. Do we have to choose between the economy and the environment? Write your own answer here and not what Al Gore says!
  
30. List the three misconceptions that Al Gore mentions in the movie about global warming. Write a short paragraph discussing whether or not you agree with him and why.