

An Inconvenient Truth...

Watch the movie and the special features and answer the following questions. You must answer **all** of the questions to get full credit.

- 1) When was the first picture of earth taken? What is unique about it?
- 2) Former vice president Al Gore mentions two teachers he had in school. One he liked, and one he didn't like. What story does he tell about the one he didn't like?
- 3) What is the Mark Twain saying used in the movie and what does it mean?
- 4) Explain the basic science of global warming as Gore presents it.
- 5) Who was Roger Revelle and what did he do? When was the data first collected?
- 6) Explain why the graph shows temperature data going up and down every year.
- 7) What is happening on Mount Kilimanjaro?
- 8) What percentage of people in the world get their water supply from the Himalayas?
- 9) What do ice core drills contain? How can they measure temperature? What happened in the "cleaner" ice core drills?
- 10) How many years of data do we have on CO₂ and temperature from place like Antarctica?
- 11) Throughout history, what have the highest levels of CO₂? What are they now? What will it be in 50 years?
- 12) When Gore brought this data before Congress, how did they react?
- 13) How many cities in the United States hit new records in the last couple of years?
- 14) How many tornadoes were recorded in the recent record year?
- 15) How does global warming influence hurricane intensity?
- 16) What did Winston Churchill say in the 1930's to get his people to react to an upcoming massive storm?
- 17) Do the effects of global warming always lead to hotter and drier conditions everywhere on the planet? Explain.
- 18) What has happened to Lake Chad?
- 19) What are the two "canaries in a coal mine" and what does this mean?
- 20) How many days can you drive on the Tundra now compared to 50 years ago?
- 21) What is permafrost and what are "drunken trees"?
- 22) How do they measure the thickness of the Arctic ice cap and how do we know about this?
- 23) Explain why the rate of melting ice increases even faster as more ice melts.
- 24) If the temperature increases 1° at the equator, how much will it increase at the north or south pole?
- 25) Explain how ocean currents move.
- 26) Explain how Europe entered the last Ice Age. Could this happen again?
- 27) Explain how invasive species problems are related to global warming (such as the pine beetle).
- 28) If Greenland or the Southwestern portion of Antarctica were to melt, how much would it raise sea levels?
- 29) What is a "Moulin"?

- 30) How many people will there be in 2050? What country is the largest contributor to global warming and how much do the CO₂ put into the atmosphere?
- 31) Explain the frog analogy.
- 32) Explain the difference in the scientific community vs. the general public on global warming.
- 33) What does Upton Sinclair say about a person ability to understand something?
- 34) How do U.S. car regulation emissions compare to those of other countries? One argument is that preventing global warming would be too expensive. Why is this wrong?
- 35) What are some changes that we can do and how large of an impact can they have?
- 36) Explain why the Ozone Hole is now considered a success story.
- 37) Name five different things you can do to bring your carbon emissions to zero (find these during the credits).

Special Features (Updates)

- 38) Explain the difference between Hurricanes, Tornadoes, and Cyclones.
- 39) How many U.S. cities hit heat records in the U.S.?
- 40) How hot did it get in Pakistan in 2006?
- 41) Of the 50 states, how many were above normal in 2006?
- 42) Explain how Ocean Acidification happens and what this does to Marine life.
- 43) How is the human population “sort of” a success story?
- 44) How wildfires related to global warming?
- 45) If the permafrost melts, what happens?