

Name: _____

Date: _____ Period: _____

Water and Climate

The Physical Setting: Earth Science

Lab Activity: Inconvenient Truth

INTRODUCTION:

Carbon dioxide and other gases warm the surface of the planet naturally by trapping solar heat in the atmosphere. This is a good thing because it keeps our planet habitable. However, by burning fossil fuels such as coal, gas and oil and clearing forests we have dramatically increased the amount of carbon dioxide in the Earth's atmosphere and temperatures are rising.

OBJECTIVE:

To gain a better understanding of the direct and indirect role man plays in global warming.

VOCABULARY:

Climate

Global Warming

Greenhouse Effect

Kyoto Accord

CO₂

Atmosphere

PROCEDURE:

Answer the following questions while viewing the Inconvenient Truth.

Lab Activity: Inconvenient Truth

QUESTIONS:

1. What was the first picture of Earth coined?
2. How many separate satellite pictures did it take to make the cloud free view of the Earth
3. What is thickening the atmosphere?
4. Who beats up Sunbeam?
5. Who was Al Gore's professor?
6. Which hemisphere has most of the land masses and vegetation?
7. What happens when the Earth "exhales?"
8. What happens when the Earth "inhales?"
9. Ice cores can measure what?
10. What is the correlation of CO₂ and temperature?
11. Where is CO₂ now?
12. Where is CO₂ in less than 50 years?
13. The hottest of all was what year?
14. The thickness of the ice depth has done what since 1900?
15. The arctic ice cap acts like what?
16. How does the Earth redistribute heat?
17. Name some vectors for infectious disease?
18. What is happening to coral reefs?
19. Antarctica ice shelves are doing what?
20. If Antarctica would melt the sea level worldwide will increase by how much?
21. If Greenland melted the sea level worldwide will increase by how much?
22. What percentage of CO₂ is due to burning of forests?
23. Which country has the highest global warming and carbon contribution?
24. What can we do to address the problem?
25. Which countries have not ratified Kyoto?

Lab Activity: Inconvenient Truth

REPORT SHEET

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