

NAME: _____

Greenhouse Effect

Investigating Global Warming

HYPOTHESIS

DATA AND OBSERVATIONS

Data TableData Table			
	Beaker 1	Beaker 2	Beaker 3
Time(minutes)	Probe 1(°C) Control Group	Probe 2 (°C) W/out Gas Added	Probe 3 (°C) W/ Gas Added
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

CONCLUSION QUESTIONS

1. During periods when the lamp was on, did the covered beakers warm faster or slower than the control? Did the covered beakers (beakers 2 and 3) have about the same temperature or different temperatures throughout the experiment?
2. Give a possible explanation for your answers in question one.
3. What important greenhouse gas did the air in beaker 3 contain?
4. During the periods when the lamp was off, did the uncovered beaker cool faster or slower than the covered beakers? Justify your answer.

5. Explain why a closed automobile heats up in the sun.

6. Explain how a certain level of greenhouse effect is needed.

7. Draw a sketch and describe an experiment to test the ability of methane gas to trap heat.

8. Brainstorm ways that humans affect the amount of each gas in the atmosphere. Try to identify human activities that contribute to the increase of these gases in the atmosphere.

9. Describe what you think Earth might be like if the greenhouse gas did not exist. Describe what you think the Earth would be like if the greenhouse effect were much greater than it is today. Explain your answers.

10. Imagine an ideal greenhouse gas. How would it behave in terms of maximum temperature and rate of cooling?