



Weather Unit - Sheet # _____ Name _____

Greenhouse Effect and Climate Change

What do you think you know...

1. What is the Greenhouse effect and how does it work?

Demonstration: Temperature inside a jar vs. the temperature outside

2. Prediction: If we put a thermometer in a jar with a closed lid next to a thermometer in the open air and exposed them to the same amount of sunlight (energy) would the temperature be different? Which do you think would be warmer, inside the jar or outside? Explain why.

The Greenhouse Effect

3. What are greenhouse gases and where can we find them.

4. Name 4 major Greenhouse Gases:

-
-
-
-

5. What's the difference between sensible heat and latent heat?

6. If everything is balanced the amount of energy striking our planet will _____ the amount of energy that is reflected back into space.

7. If the earth absorbs more energy than we let off what will happen to our global temperature?

8. Draw a Flow Chart for the Greenhouse Effect.

9. What is global warming?

10. How can/do humans affect global warming?

What you know at the end of the lesson...

11. Observation and Conclusion: What was the result of the demo, which thermometer showed a higher temperature? Explain.

12. Now, what do you think the greenhouse effect is? How is the Earth like a greenhouse? Compare your answers now with what you thought at the beginning of the lesson.