Name

Jack Buck

Date:

05-07-2022

Student Exploration: Greenhouse Effect

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: global warming, greenhouse effect, greenhouse gas, heat flow

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- What do you notice when you get into a car that has been sitting in the Sun for a while?
- 2. Why is the inside of the car so hot?
- How would things be different if the car's windows were left open?

I observe that the interior is warm.

As a result of the sun's radiation heating the inside of the car,

With the windows down, things would be different since the heat would not be trapped inside the car, making it cooler.

Gizmo Warm-up

Like the windows of a car, **greenhouse gases** play a major role in regulating Earth's climate. Without the gases that trap heat in Earth's atmosphere, Earth would be a frigid desert like Mars (average temperature -55°C, or -67°F). Too much greenhouse gas and Earth could be a fiery inferno like Venus (average temperature 450°C, or 850°F).

On the Greenhouse Effect Gizmo, set the Greenhouse gases to 0% and the Simulation speed to fast.



 Click Play () and view the BAR CHART tab. The temperature will go up and down every day, but try to look at the overall trend. What happens to the temperature over time?

Heat out remains constant, heat in varies from 0 to 60, and temperature remains in the same ballpark.

Now set the Greenhouse gases to 100% and let the simulation run for a while. How does a maximum amount of greenhouse gas affect the temperature?

greatly raises the temperature

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Minjie Lin

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