



Name:

Date:

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.)

1. 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?
3. How would things be different if the car's windows were left open?

The inside of the car is entirely heated up

Because the sun is hitting the car and there's nowhere for any air from outside to get in , it makes the entire inside of the car hot

The heated air in the car could mix with the cooler air outside the car so it would not be as warm

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**.



1. 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?

Over time, the temperature gets lower and lower

2. 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?

Over time, the temperature gets higher and higher

Greenhouse Effect Gizmo Answers

L Towne

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the L Towne text.

Greenhouse Effect Gizmo Answers:

New Scientist, 2006 *Global Warming For Dummies* Elizabeth May, Zoe Caron, 2009-09-02 Get positive suggestions for practical solutions to this heated issue Hotly debated in the political arena and splashed across the media almost 24 7 global warming has become the topic of the moment Whatever one s views on its cause there is no denying that the earth s climate is changing and people everywhere are worried *Global Warming For Dummies* sorts out fact from fiction explaining the science behind climate change and examining the possible long term effects of a warmer planet This no nonsense yet friendly guide helps you explore solutions to this challenging problem from what governments and industry can do to what you can do at home and how to get involved **The Greenhouse Trap** Francesca Lyman, 1990-04-30 The latest facts on climate change the trouble with everyday energy use 8 steps toward climate stability and how you can get involved Global Warming Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 2003-01-01 Examines global warming and the greenhouse effect changes in earth s climate since its formation the effects of these changes and whether anything can be done to reverse them Greenhouse Effect James F Frayne, 2019-02-11 Today most people with some notable exceptions would agree that humans have been responsible in changing the Earth s atmosphere in dramatic ways over the last two centuries and thus causing global warming Were we to agree or doggedly stick our heads in the sand and flatly disagree that the Earth is experiencing a phase of global warming we all have to accept that very strange things have happened in recent years Precipitation in excesses has caused flooding of large areas throughout the world We have seen unprecedented high temperatures causing droughts and unimaginable forest fires whilst on the other hand we have been witness to severe drops in temperature Still there are those people who insist that there are not such things as the Greenhouse Effect or Global Warming Perhaps such people are simply misinformed This book is intended to help us all understand these phenomena better and to help extract the sadly misinformed from their places in the sand Greenhouse Gases Julie Kerr Casper, 2010 Covers varying opinions on greenhouse gases discussing their sources effect on the environment role in global warming and how they can be curbed **The Greenhouse Effect** Tim Hewat, 1989-01-01 **Green Genius's 101 Questions and Answers** Madhu Singh Sirohi, Sah Snigdha, 2008-01-01 The climate of the earth has changed many times before in the planet s 4 5 billion year old history But today its temperature is rising faster than ever before driving many life forms to extinction And scientists believe that this time it is humans who are to blame Increase your green quotient and learn the answers to some less frequently asked questions on global warming Join Green Genius as he takes you on a journey to discover how to save the earth *Global Warming and Climate Change Demystified* Jerry Silver, 2008-02-24 A non heated discussion on global warming and climate change Interested in getting to the core of the reasons for the Earth s changing climate Want an accurate reading on the science behind global warming Here s your gauge This easy to follow guide offers a temperate view of this hot topic *Global Warming Climate Change Demystified* starts by looking at scientific data gathered from weather

instruments satellite telemetry ice cores and coral sections that reveal how the Earth's temperature is changing The book goes on to examine the causes of climate change including both natural processes and human generated greenhouse gases Finally the consequences of global warming are discussed and a wide variety of viable solutions that can be implemented by individuals as well as society as a whole are presented Complete with end of chapter quizzes and a final review to test your knowledge this book will teach you the fundamentals of global warming and climate change in an unbiased and thorough manner This fast and easy guide offers A thorough review of scientific data Details on the evidence of global warming worldwide Information on the origin and impact of greenhouse gases Explanations of alternatives to carbon based energy sources Suggestions for local and global solutions Simple enough for a beginner but challenging enough for an advanced student **Global Warming Climate Change Demystified** is your shortcut to understanding this important and timely issue

Global Warming Erin L. McCoy, 2018-12-15 Rising ocean temperatures melting glaciers and widespread climate change have caused food shortages threatened human settlements and endangered wildlife Accelerated global warming caused by pollution and the excessive release of greenhouse gases may be the most pressing threat our planet faces today and it is key that children understand the complexity of this issue from an early age Readers will learn the science behind global warming with the aid of full color photographs and charts a glossary and sidebars They will also discover what individuals nations and organizations such as the Intergovernmental Panel on Climate Change and the Nature Conservancy can do to save the planet

The Greenhouse Effect Rebecca L. Johnson, 1991 Discusses the greenhouse effect research into its causes and possible impact on our planet **Global Warming & the Greenhouse Effect** Colin Hocking, Cary Ivan Sneider, John Erickson, Richard Golden, 2006 *America Debates Global Warming* Matthew Robinson, 2007-08-15 This is a thought provoking well balanced presentation of the debate on global warming People who hold the view that global warming is a crisis point to temperature changes in the ocean raised CO2 levels and other evidence that directly ties global warming to human industrialization Critics of this argument point to a natural cyclical interglacial period occurring arguing the influence of the earth's orbit and solar output fluctuations Who is right Scientists world leaders and political leaders weigh in

Global Warming Michael Anderson, 2011-08-15 Introduces global warming discusses the greenhouse effect and examines the effects of the increase in surface temperature **Global Warming & the Greenhouse Effect**, 1990 *Global Warming* Peggy J. Parks, 2004 Earth's temperature has risen steadily for the past century Many scientists believe this global warming is the result of human activities such as the burning of fossil fuels This book thoroughly explores the issue and includes the perspectives of scientists who are alarmed as well as those who are not *The Greenhouse Effect* Darlene R. Stille, 1990 Describes the causes and effects of the greenhouse effect and how it might be stopped *Experiments that Explore the Greenhouse Effect* Martin J. Gutnik, 1991 There are numerous air pollution problems that demand immediate attention One of these is global warming due to the greenhouse effect Includes 11 experiments for young scientists **The**

Greenhouse Effect Michael Bright,1991-01-01 Describes the greenhouse effect the gases that cause it how it affects the environment ways to reduce the emission of greenhouse gases and alternative cleaner sources of energy *Climate Crisis*
Russ Parker,2009-01-15 Curious readers will discover how the world s climate is changing from the greenhouse effect and the ozone hole and what we are doing to help our planet

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