

泌 Gizmos

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In Earth's atmosphere, greenhouse gases are transparent to visible light but absorb heat that is emitted from Earth's surface. Some of this heat is then reflected back to Earth. If the greenhouse gases were not present, all of the heat would radiate into space instead.	In a greenhouse, sunlight passes through the transparent glass and is absorbed by the plants and soil below. Heat is then radiated from plants and soil, which heats the air inside the greenhouse. The hot air is trapped by the glass. If the glass were not there, the hot air would mix with the colder air outside, and the result would be similar temperatures inside and outside the greenhouse.	Note: The reason greenhouse gases raise the temperature of Earth's atmosphere is similar to, but not identical to, the way that the glass in a greenhouse raises the temperature inside.	slow increase in average temperature wortowide. What are the possible consequences of global warming?	Extend your thinking: Atmospheric concentrations of greenhouse gases such as carbon dioxide have risen dramatically in the past century. Most scientists agree that this has begun to result in global warming, a	<u>Draw conclusions</u> : The influence of greenhouse gases on temperature is called the greenhouse effect . Based on what you have seen, how do greenhouse gases affect the heat flow into and out of Earth's atmosphere?	Experiment: Click Play , and this time observe the GRAPH tab as you change the Greenhouse gases . What do you notice?

The Greenhouse Effect (Worksheet)

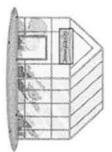
Q.1. Fill in the blanks with suitable words.

is the mixture of gases that surrounds the Earth.

b) The Earth, our planet, absorbs energy from ______ in the form of solar radiation.

c) About 30 percent of incoming solar energy is _______back into space.

<u>a</u>



A greenhouse is made up of glass panes which allow sunlight through and trap heat inside.

glass panes in a greenhouse, lets in sunlight and trap the heat energy escaping from the Earth. As a result, the temperature of Earth.

Q.2. Write the major greenhouse gases in the spaces below.

