

EARTH'S GREENHOUSE EFFECT

Based on the information from *Earth's Greenhouse Effect* video, use the Word Bank to fill in the blanks.

1	Without an atmosphere, the earth would be 30 degrees Celsius <u>cooler</u> than it i today.			
2			wave radiation wave radiation wave radiation	
3	Most of this radiation is emitted by the <u>atmosphere</u> , instead of the earth's surface Only 10% actually escapes into space.			
4	I. The rest is absorbed	The rest is absorbed by and greenhouse gases.		
5		ant of these gases are	waterioxide	vapor
	Short-wave radiation from the passes through these gases, but long-wave radiation reflected by the surface of the earth is absorbed by them and then is re-emitted in all directions. About half is directed back toward the surface of the earth. This causes a continual exchange of long-wave radiation between the surface of the earth and the atmosphere above it.			
8	Trapping of long-wave energy is called Greenhouse Effect and the surface temperature of the earth.			
	solar	short	carbon dioxide	sun
Ì	long	re-emitted	Greenhouse Effect	enhances
Ī	warmer	diminishes	methane gas	atmosphere
	nitrous oxide	water vapor	Global Warming	surface of the earth
Î	cooler	clouds	absorbed	

On the back of this page, make a diagram showing one or more of the above statements.