Name	Period	Date

All About...Greenhouse Gases

Greenhouse gases trap heat in the atmosphere, which makes the Earth warmer. The following gases are considered to be greenhouse gases:

Greenhouse Gas	Where it Comes From	How Long it Remains in the Atmosphere
	Burning fossil fuels	
Carbon dioxide – 54.7%	Cutting down/burning trees	Anywhere from <u>50</u> to <mark>thousands</mark> of years
	Industrial & manufacturing processes	
	Raising livestock	
Methane - 30%	<u>Landfills</u>	12 years
	Transporting natural gas	*This gas traps 25 times more heat than
	Mining coal	the same amount of CO_2
	Burning fossil fuels	
Nitrous oxide – 4.9%	Manufacturing processes	<mark>114 years</mark>
	Certain <mark>farming</mark> practices (such as	*This gas traps 298 times more heat
	extra fertilizer)	than the same amount of CO_2
	Leaking <mark>coolants</mark> (from refrigerators,	Dependent on the gas (though some can
Fluorinated gases - 0.6%	freezers, air conditioners)	remain for <mark>hundreds</mark> of years)
	Some manufacturing processes (ex.	*Some gases trap up to 23,000 times
	making computer chips)	more heat than the same amount of CO_2
	Cooling agents	CFCs have a long-lasting effect. Their
CFCs (Chlorofluorocarbons)	<u>Cleaning solvents</u>	presence in the atmosphere has largely
		decreased since being banned in many
		countries.

Did you know...water vapor is also a greenhouse gas! It occurs naturally in the atmosphere and is the largest contributor to the <u>natural</u> greenhouse effect. As temperatures on the ground rise, water evaporates from rivers, oceans, etc. and becomes water vapor in our atmosphere.