Global Warming and Climate Change Multiple Choice Test ©Sheri Amsel • www.exploringnature.org

Name			Date	
1	Earth's temperatures are stable because we are surrounded by which allows the right amount of sunlight in to warm the Earth. A a cloud layer B an atmosphere C gravity D water	6	The layer of the atmosphere closest to Earth is called the: A troposphere B stratosphere C exosphere D mesosphere	
2	This layer keeps us "not too hot in the summer" and "not too cold in the winter." Scientists call this the effect. A greenhouse effect B seasonal effect C ocean effect D lake effect	7	How are humans making greenhouse gases of our own? A burning fossil fuels in our cars B burning forests C with large-scale agriculture D all of these	
3	Certain gases in the atmosphere – water va- por, carbon dioxide, methane and nitrous ox- ide – help maintain the Earth's temperatures and climate. These are called: A ozone gases B solar gases C greenhouse gases D stomach gases	8	Too many greenhouse gasses in the atmosphere may block heat from escaping into space and trap too much heat next to the Earth's surface causing: A another ice age B global warming C earthquakes D volcanic eruptions	
4	The solar energy that warms the Earth includes visible light, infrared and coming from the sun. A gamma rays B ultraviolet radiation C microwaves D sunspots	9	Something that might happen because of global warming is: A melting polar ice caps B more reflected sunlight off the ice pack C lower sea levels D a sale on bathing suits	
5	The solar radiation that bounces off the Earth back toward the atmosphere is mostly (with a longer wavelength). A gamma radiation B x-ray radiation C nuclear radiation D infrared radiation	10	 Things you can do to help decrease global warming include: A Keep your air conditioner on high. B Turn off your lights when you're not using them. C Keep your freezer door open. D Eat more ice cream. 	

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