Name:			Date:	Block:
Miller and Spoolman's <u>Living in the Environment</u> 16 th ed.				
Chapter 19 Reading Guide –			- Climate Change and Ozone Depletion	
Case S	Study –	Studying a Volcano to Un	derstand Climate Cha	nge
1.	Explain why studying a volcano helps us understand climate change, and what we learn by doing this.			
Sectio	n 19-1	– How Might the Earth's T	emperature and Clim	ate Change in the Future?
2.	Sumn	Summarize the history of Earth's climate change.		
3.	Explain the importance of the greenhouse effect.			
4.	What are some human activities that emit greenhouse gases?			
5.	Describe the evidence in support of the scientific consensus about human-induced global warming. (Science Focus)			
6.	Identify elements of uncertainty related to the theory of global warming, and what role they play in public perception.			
Sectio	n 19-2	– What Are Some Possible	e Effects of a Warmer A	Atmosphere?
7.	Describe the consequences of global warming.			
8.	Why are projections varied? (Figure 19-7)			
9.	Describe the cause, effect, and evidence of melting ice in Greenland. (Science Focus)			
10. Explain possible impacts of global warming.				
	a.	Drought		
	b.	Melting		
	c.	Sea level		
	d.	Extreme weather		
	e.	Biodiversity		
	f.	Agriculture		

g. Human health

Section 19-3 – What Can We Do to Slow Climate Change?

- 11. Explain what needs to be done in order to slow the rate of global warming in terms of energy and population.
- 12. Explain what governments can do to slow climate change.

Section 19-4 – How Have We Depleted Ozone in the Stratosphere and What Can We Do about It?

- 13. Describe the causes and effects of ozone depletion.
- 14. Describe the four major conclusions of Rowland and Molina. (Science Focus)
- 15. Explain what has been done and what we need to do to reverse ozone depletion.
- 16. Describe causes and effects of skin cancer.
- 17. Describe the types of skin cancer and what you should do to minimize your risk.