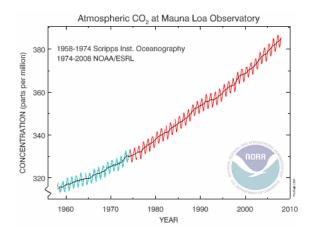
Name:	Period:	Date:
	APES Study Guide Climate Change and Global War	ming
Vocabulary <i>Understand and be able to a</i>	pply each of these terms.	
1. Troposphere -		
2. Greenhouse effect –		
3. Ice Age –		
4. Proxy –		
5. Albedo –		
6. Hydrologic Cycle –		
7. Anthropogenic green	house gas emissions –	
8. Carbon sequestration	1 -	
Critical Thinking <i>Be able to read, analyze, and</i>	d give complete answers to questions like	these.
9. Describe how the atr	nosphere during the Precambrian period w	vas different than today.
10. List four greenhouse	gases.	
11. What is the difference currently in?	e between an interglacial period and glaci	al period within an ice age? What are we
12. Explain how ice core	es are used as proxies to measure temperat	cure and greenhouse gas concentration.
13. What is another exar	nple of a proxy besides ice cores?	

14. This is the graph of the atmospheric CO2 levels as measured in Hawaii. Why does the line go up and down every year?



- 15. Briefly explain how each of the following factors have changed over the last 150 years.
 - a. Global average surface (land and sea) temperature:
 - b. Arctic sea ice extent:
 - c. Land ice extent (Greenland and Antarctica):
 - d. Sea Level:
- 16. Due to global warming, the range of some insects has increased. Give an example, and describe a negative consequence of this insect.
- 17. What is the relationship between global warming and hurricanes?
- 18. Why is the Great Ocean Conveyor Belt important to Western Europe? How could it be impacted by global warming?
- 19. Temperate (non-polar) glaciers only make up about 1% of the total land ice in the world. How could their loss affect human populations?

20. What two aspects of the hydrologic cycle are impacted by global warming? How could this affect weather patterns?
21. What populations would be the most affected by sea level rise?
22. Most scientists (agree / disagree / are mixed) in regards to the IPCC conclusions that global warming is occurring, and that humans are at least partially responsible for it.
23. Give an example of a global warming <u>prevention</u> strategy.
24. Give two examples of an agricultural release of greenhouse gas.
25. Why is carbon capture and storage not implemented in every coal-fired power plant?
26. Give an example of a geoengineering strategy to combat climate change.
27. Explain how emissions trading would have worked, if the 2009 Cap-and-Trade bill had passed the U.S. Congress.