STUDY DOG
GEOGRAPHY

Name: _____

The carbon budget

What were atmospheric CO2 levels 200 million years ago, and how can the possible effects of the current increase be predicted?	
What is an example of a negative feedback loop in the carbon cycle?	
What is an example of a positive feedback loop in the carbon cycle?	
What is ocean acidification?	
How does ocean acidification affect coral reefs, and why does reef loss threaten coastal communities?	

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How could ocean warming weaken the biological carbon pump, and how does it lead to coral bleaching?	
How is melting sea ice an example of positive feedback?	
What are two causes of sea level rise described in the lesson, and what rate and future range of rise are given?	
What is the enhanced greenhouse effect, and why would the Earth's temperature increase by another 0.6°C even if anthropogenic CO2 emissions stopped?	
Using what you have learned, assess the extent to which feedback in the carbon cycle is likely to amplify rather than reduce climate change.	

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