Driving Question: Will warm oceans be better or worse at absorbing CO₂?

Question	Answer	Where did you find the answer?
How is CO ₂ used by animals and by		
plants?		
Where is carbon found in non-living		
parts of the earth?		
How does carbon move between the		
living and non-living parts of the		
earth?		
How are humans adding CO ₂ to the		
atmosphere?		
Is the atmosphere the only place the		
extra CO ₂ goes? Explain.		
What is the greenhouse effect?		
How does extra CO ₂ connect to the		
greenhouse effect?		
What does it mean if something is		
described as a carbon sink? Name		
two carbon sinks.		
Do oceans absorb carbon dioxide?		

It's a Gassy World Scavenger Hunt!

Possible videos to check out include: "1-The Carbon Cycle" at (<u>https://archive.epa.gov/climatechange/kids/basics/today/carbon-dioxide.html</u>) and "2-The Greenhouse Effect" at (<u>https://archive.epa.gov/climatechange/kids/basics/today/greenhouse-effect.html</u>).

Question	Answer	Where did you find the answer?
How is CO ₂ used by animals and by	Plants use combine the energy from the sun with CO ₂ to make sugars.	
plants?	Animals eat the sugars, then release CO_2 during respiration and exhale it out.	
Where is carbon found in non-living parts of the earth?	Carbon is in the atmosphere (air), oceans, fossil fuels.	
How does carbon move between the	Plants absorb it, taking from atmosphere and putting it in living things,	
living and non-living parts of the earth?	animals (and plants) release it out, dead organisms decompose.	
How are humans adding CO_2 to the atmosphere?	Burning too much fossil fuel, cutting down trees and forests, etc.	
Is the atmosphere the only place the extra CO ₂ goes? Explain.	Some extra CO ₂ is absorbed by the oceans.	
What is the greenhouse effect?	The greenhouse effect is when the gasses in the atmosphere retain the radiant energy from the sun and trap the heat on earth instead of releasing it back to space.	
How does extra CO ₂ connect to the greenhouse effect?	CO_2 is a greenhouse gas, meaning that is retains heat. So more CO_2 means more heat, amplifying the greenhouse effect.	
What does it mean if something is	Sinks are places where carbon can go to be stored for a long time. Oceans,	
described as a carbon sink? Name two carbon sinks.	forests, and fossil fuels are carbon sinks.	
Do oceans absorb carbon dioxide?	Yes.	

Answers to It's Gassy World Scavenger Hunt!