

Topic/Objectives: Carbon Dioxide in the Ocean; Describe how increasing CO2 levels can have a negative effect on the ocean environment		Name:
		Date:
		Period:
Essential Question: What effects can increasing CO2 levels have on the ocean environment?		
Questions:	Notes:	
	The Effects of Increasing CO ₂	
	◦ Since about 1750 and particularly since the _____, human activity has caused atmospheric CO ₂ levels to increase drastically.	
	◦ CO ₂ concentrations have increased by 1.5 ppm per year since measurements began in 1958.	
	◦ Natural removal of CO ₂ from the atmosphere—dissolution in the ocean, _____, and deposition in sediments—cannot keep up with the rate of increase.	
	Chemistry of Ocean Acidification	
	◦ Rising CO ₂ levels affects the _____ of the ocean.	
	◦ About _____% of the CO ₂ emitted into the atmosphere each year dissolves in the ocean.	
	◦ The pH of the ocean is dropping and the ocean is becoming less alkaline, which is a process called _____.	
Effects of Ocean Acidification		
◦ The organisms at most risk of ocean acidification are those with shells, skeletons, or other structures made of _____ (CaCO ₃).		
◦ Organisms have more trouble making their shells and other calcium-containing structures, which requires more time and energy in the <u>acidic</u> environment.		
◦ Affected species span the entire _____.		

