

Activity	Question	Scoring									
		0	1	2	3	4	5	6	7	8	
Activity 1.1	1	warm water	cold water								
	2	fresh water	salty water								
	3	warm;fresh	cold;fresh OR warm;salty	cold; salty							
	4	equator or warm environments	cold environments	poles or high latitudes							
	5	upwell	downwell								
	6	arrow points up		arrow points down							
	7	downwell	upwell								
	8	arrow points down		arrow points up							
Activity 1.2	9	doesn't identify any regions	identifies one region	identifies at least two regions							
	10	no answer	yes or no	describes discrepancies							
	11	no answer	lists one answer	describes at least one answer	describes at least two answers						
	12	no answer	provides one term	provides two terms or one + linkage	provides three terms or two + linkage	provides four terms or three + linkage	provides five terms or four + linkage	provides five terms and links terms			
Activity 1.3	13	no answer	states change in carbon cycle/ atmospheric CO ₂ concentration	states decrease in CO ₂ absorption by oceans							
	14	no answer	provide one point per term if in wrong spot	correctly fills one box	provide one point per term if in wrong spot	correctly fills two boxes	provide one point per term if in wrong spot	correctly fills three boxes	provide one point per term if in wrong spot	correctly fills four boxes	

	15	no answer	states reason not included in article	changes iron availability (doesn't state how)	reduced iron availability				
	16	no answer	states that humanity should "be more careful" or some other generic answer	states that humans should reduce carbon footprint/CO ₂ emissions	reduce carbon footprint/CO ₂ emissions, include policy and/or individual changes				

Homework	1	no answer	increase in salinity through freezing or converging of currents (both are mechanisms, but not the PRIMARY mechanism)	decrease in temperature					
	2	no answer	change in temp or salinity	change in temp and salinity					

	3	no answer	lists one factor	lists two factors or begins setup of feedback with one factor	2 pts + one factor in the wrong place	sets up feedback with two correct factors	4 pts + one factor in the wrong place	sets up feedback with three correct factors	6 pts + one factor in the wrong place	sets up feedback loop with all four factors
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4

no answer

states
"decreases fish
populations"

relates fish
population to
decreased
upwelling

relates fish
population to
decreased
nutrient
availability
from
decreased
upwelling

relates fish
population to
decreased
phytoplankton
productivity,
from
decreased
nutrient
availability
from
decreased
upwelling

