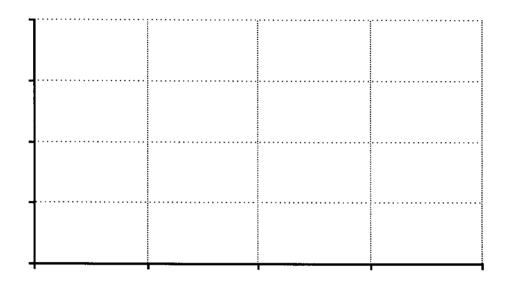
## Pan Water Cycle Student Guide – Answer Sheet Section I

	ponents (	of the pan wate	r cycle woul	d be represe	nted by stoc	ks?
Which processes of the pan water cycle would be represented by a flow?						
evaporati	ect did turn ion occurre ere system?	ing up the tem d in our pan m	perature of todel? How	he hot plate loes this rela	have on how	v mucl al ocea
What effe	ect would nere system?	noving the eart	h closer to th	e sun have o	n the real o	cean-
air at the	rate of 100	ts a situation in ) {degrees Celsi ke for the wate	us} * 1/20 {n	ıl/min/degre	e Celsius}. ]	How n
the pan d		d, sketch a graphinutes of evapo destions.				
the pan d	luring 20 m	inutes of evapo				
the pan d	luring 20 m	inutes of evapo				
the pan d	luring 20 m	inutes of evapo				
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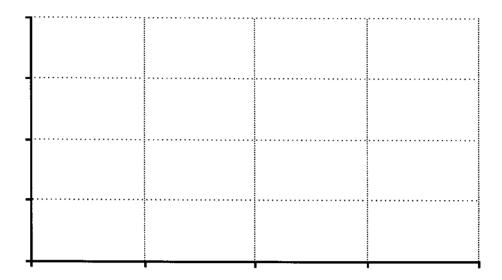
Q7: Referring to the Level I Generic Graph Questions, sketch the Water in Pan graph on the axes provided.



Q8: Referring back to your copy of the Graph Interpretation Guidelines, describe the graph in the context of the situation being modeled.

Q9: If the water in the pan is decreasing from 100 ml to 1 ml over a 20 minute time period of evaporation at 100 degrees Celsius, describe what should be happening to the water in the air during the same time period.

Q10: Referring to the Level I Generic Graph Questions, sketch the Water in Air graph on the axes provided.



Q11:	Referring back to your copy of the Graph Interpretation Guidelines, describe the
	graph in the context of the situation being modeled.

Q12:	If the water temperature were lowered to 0 degrees Celsius, how would the
	evaporation change?

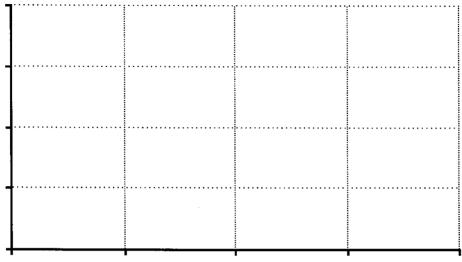
Q13:	If the water temperature were lowered to 0 degrees Celsius, how would the lines for the Water in Pan and Water in Air graphs be different from the lines drawn for a water temperature of 100 degrees C?
Q14:	Sketch the new lines on the axes already used in Q7 and Q10. Label each line with the water temperature setting used when the line was drawn.
Q15:	Pick two temperatures between 0 degrees Celsius and 100 degrees Celsius. Write a description of where the lines for Water in Pan and Water in Air should be for those temperatures in relation to the two existing lines on each of those graphs.
Q16:	Sketch the new lines of the axes already use in Q7 and Q10. Label each line with the water temperature setting used when the line was drawn.
Q17:	On the Water in Air graph, what does the slope of each line tell you about evaporation?

## Pan Water Cycle Student Guide – Answer Sheet Section II

pan?	u name the flov	v that moves li	• 1					
From the graph			l you name the flow that moves liquid water on the cover to water					
<ul><li>a) Water in</li><li>b) Water in</li></ul>	From the graphs, estimate the value of each stock after 20 minutes.  a) Water in Pan  b) Water in Air c) Water on Cover							
<ul><li>a) Water in</li><li>b) Water in</li></ul>	What is your prediction for the value of each stock after 20 more minutes?  a) Water in Pan b) Water in Air c) Water on Cover							
Referring to the Level I Generic Graph Questions, sketch each curve on the a provided.								
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<b>-</b>								
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Pan Water Cycle – Student Guide Section II – Answer Sheet



:	Referring back to your copy of the Graph Interpretation Guidelines, describe the curves in the context of the situation being modeled.
:	What does it mean to say that our model of the closed pan water cycle is in equilibrium?
	How is our computer model of the pan water cycle unlike the actual covered pan system?
:	How is the pan water cycle like the water cycle in the real world?
l:	How is the pan water cycle different from the water cycle in the real world?