Teacher: Class:					
Date:					
	AQU	JAPONIC ECOS	YSTEMS WEEKLY	ΓESTS	
WATER					
TANK #				B1' '	NT**
Date	Temperature	рН	Ammonia	Nitrite	Nitrate
Optimal Range	60°F - 75°F	6.5 - 7.5	0 – 0.5 ppm	0 - 1.0 ppm	< 40 ppm
In the space b	pelow, provide a Qu	ıalitative Anal	ysis of the <u>Water</u> ir	the tank. Be de	scriptive.
•		·			•
Water Volum	e				
	amount of water tl	nat is in the tar	nk. Show your wor	k in the spaces p	rovided.
 Using of 	centimeters, measu	ire the length,	width, and height	of the water with	in the tank.
Length =	cm	Width =	cm	Height =	cm
•	ly the three measu			•	
•		o o			
					cm ³
• cm ³ = 1	mL; Therefore your	nroduct can a	also he laheled witl	n the unit of mea	surament ml
CIII – I	me, increiore your	product can a	nso be labeleu with	i the unit of mea.	surement <u>me</u>
			cm ³ =	m	L
	nL = 1 L; Divide you FT) to determine th	_	•	decimal point TF	IREE places to
			mL =	L	
 Multip 	ly .2642 and the nu	mber of Liters	s to convert to galle	ons	
			L =	gallo	ns
Our tanks are	e 10-gallon tanks. I	Does your ansv	wer make sense? _		
IF NECESSAR	Y, using a graduate	d cylinder, add	d enough water to	bring the water a	mount in the

Amount of water added ______L

How could you calculate the exact amount of water to add?

tank even to the blue line marked on the glass.

Name:

<u>PLANTS</u> List the typ	es of plants a	nd measure tl	neir heights	s (in cm) ir	ı your ecosyste	em below.	
	•		3				
Plant type							
cm height	cm	cm	cm	_	m cm	_	1
_ Prui _ Chec _ Harv _ Do a _ If po _ Chec _ Are _ to he _ Other Comments:	ne any dead lock that baske west plants or any areas nee ossible, check ok the health plants facing elp plant grow	eaves off of plats (if being used leaves as need replanting? the root system of the plants-	ants ed) are still ded em. Do root any bugs/in ht? If possib etraight.	holding p	-		
Gently capt	•	•	•	•	rface of the wa	ater; quickly	measure.
Fish cm Length Observe all	the fish in vo	cm our tank caref		cm off items t	hat apply; writ	cm te necessary o	cm comments.
_ Eye _ Scale _ Swin _ Swin _ App _ Off co _ Fish	color good, eges look shiny mming erration mming slowly ears to be gas on its own missing	yes clear and healthy cally					
Comments:							

	ur diagram. FISH		PLANT		(type)
		TANK COM	IPARISONS		
ek		THINK CON	II AMSONS		
			1		1
Optimal	Date				
Range		Tank 1	Tank 2	Tank 3	Tank 4
60°F - 75°F	Temperature	Tunix I	Tunk 2	Tuin 5	Tunk 1
6.5 - 7.5	рН				
0 – 0.5 ppm	Ammonia				
o olo pp					
0 – 1.0 ppm	Nitrite				
< 40 ppm	Nitrate				
	Nitiate				
	1				•
ce a <u>CLAIM</u> as to	o which tank is the	e healthiest.			
at <u>EVIDENCE</u> (f	rom your data tab	le) supports	your <u>CLAIM</u> .		

TANK COMPARISONS

Last Week	
data from page 3	

Optimal Range	Date				
		Tank 1	Tank 2	Tank 3	Tank 4
60°F - 75°F	Temperature				
6.5 - 7.5	рН				
0 – 0.5 ppm	Ammonia				
0 – 1.0 ppm	Nitrite				
< 40 ppm	Nitrate				

Current	Week-	Week	
Current	AA CCV-	VVCCN	

Optimal Range	Date				
		Tank 1	Tank 2	Tank 3	Tank 4
60°F - 75°F	Temperature				
6.5 - 7.5	рН				
0 – 0.5 ppm	Ammonia				
0 - 1.0 ppm	Nitrite				
< 40 ppm	Nitrate				

Make a <u>CLAIM</u> as to which tank is the healthiest.
What <u>EVIDENCE</u> (from your data table) supports your <u>CLAIM</u> .
Provide the <u>REASONING</u> of your <u>EVIDENCE</u> and what you know of healthy aquaponic ecosystems.