Virtual Lab: Population Biology

w to get there: (http://glencoe.mcgraw-hill.com/sites/dl/free/0078757134/383928/BL_04.html) If you don't want to type that in you can go to the homepage of your textbook site this site OR type "biology mader aris" into google. Once you are there and see the textbook cover (bird and chicks) go to the tab at the top that says "resources". Scroll down to "Chap 46", open that page and click on the link to "Virtual Lab - Population Biology".

Instructions: This lab has instructions on the left hand side and also contains pages to enter data and questions. Due to the trouble we've had in the past with submitting documents and data this way, it is preferable to just turn in a handwritten or typed copy. Print this out for copies, or use the Word Document to type directly into the tables (preferred).

Data Tab	ole			
	P. aurelia grown alone, cells/mL	P. caudatum grown alone, cells/mL	P. aurelia grown in mixed culture, cells/ mL	P caudatum grown in mixed culture, cells/mL
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Day 2			The second secon	
Day 4				
Day 6				
Day 8			gram of the whole in a diply material is shifted in a control of a conset finest in the control process control on the whole is a con-	
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Day 16			en mar viden sa kekina aan aan in e ^l a kinade aad diaaddaapanaan dekrease gayddiaen awys stoss saaton, e'n awys	A STATE OF THE STA
Journal				
1. What a	re the objectives for	this experiment? (you	can summarize)	
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hey will g	row when they are g	ow you think the two sprown together.	pecies of Paramecium v	will grow alone and how
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. Explain	how you tested your	hypothesis.	and a real particular. Asserting our medical carpets have been all the best and an extraordist of the best sound as the designed	

4. On what day did the <i>Paramecium caudatum</i> population reach the carrying capacity of the environment when it was grown alone? How do you know?
5. On what day did the <i>Paramecium aurelia</i> population reach the carrying capacity of the environment? How do you know?
6. Explain the differences in the population growth patterns of the two Paramecium species. What does this tell you about how Paramecium aurelia uses available resources?
7. Describe what happened when the Paramecium populations were mixed in the same test tube. Do the results support the principle of competitive exclusion? (you may need to briefly explain what competitive exclusion is)
8. Explain how this experiment demonstrates that no two species can occupy the same niche.