

再興2011美東教育學習之旅

第八天:7月13日 分組上課實驗

今天起, 各組正式進入實驗室開始不同的課程: Jellyfish, Flounder, Clam and Crab 分別到四位教授的實驗室進行課程學習。

[第八天所有相片檔連結](#)





8:50集合後,TA帶領學生前往R109



9:00上課Dr.Beth先將昨天的戶外教學活動提出review 及討論提問

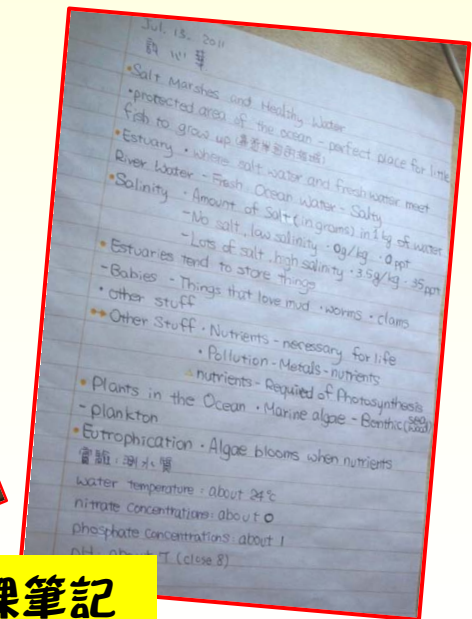
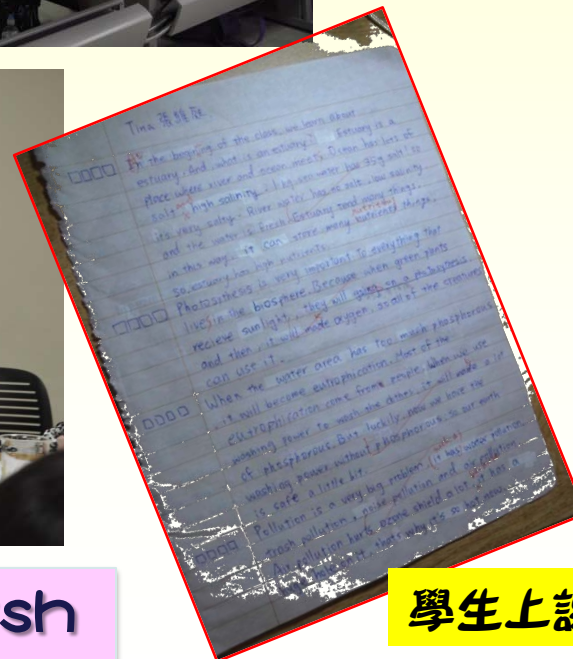
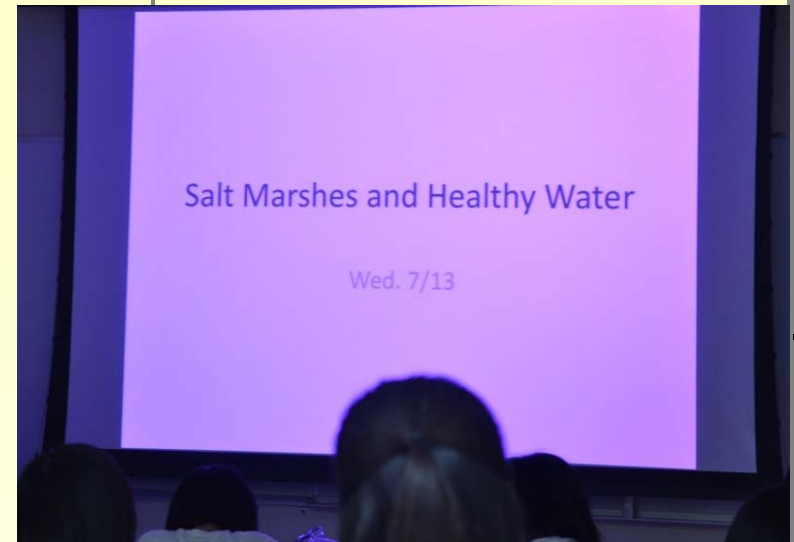
隨後各組帶往各實驗室進行不同的課程



Jellyfish ; Microbes 如何使用顯微鏡觀察海洋生物







Flounder : Salt Marsh
海水的酸鹼質

學生上課筆記



學習心得

- Today is the first day of the science! Our teacher is Dr. Beth. She is nice, and taught us very detail.
- She taught us how to identify as water quality like Nitrate, phosphate, temperature, pH, ^{and} salinity. ^{In the beginning} we ~~first~~ loaded the water in the test tube, about 5 ml ~ 10 ml, and put the pill in the test tube, and shake, wait for 2~5 minutes. ^{Then} the pill would let the water change another color! And then, we followed the example to identify the quality of water. Because of the science result, we know the water quality like this ↓ (see a form)

The Water quality	
Temperature (溫度)	26°C
Nitrate (硝酸鹽)	0.2 ppm
Phosphate (磷酸鹽)	1 ppm
pH (酸鹼值)	7.5
Salinity (鹽度)	0

interesting ~
nice work!

By Prince Hu

Note By Prince.

Water pollution can make people sick. If you drink the polluted water, it's bad to your health. It also can make the water area be eutrophication, and it will hurt the creatures in the water. When people eat seafood, we eat the polluted one. So, at the end, all the pollution will hurt ourselves.

At the end of the class, we doing a testing, it's called "Water quality testing". We have some sample water, this water is the water through tidal inlets. We take 10 ml water in the tube and put the special medicine in it. We do this work three times to test phosphate, pH and salinity in the ocean. But the water wasn't dirty enough, so our testing was not very successful.

After this class, I learn many things about the Ocean. I think we ^{had} better use the washing powder without phosphorous, so it won't hurt our lovely earth. We shouldn't destroy the estuary, or we will destroy millions of creatures' home. And we should made less pollution, because in the end, we will just ^{hurt} ourselves!

you really learned a lot from it!
God job!

By Tina Change

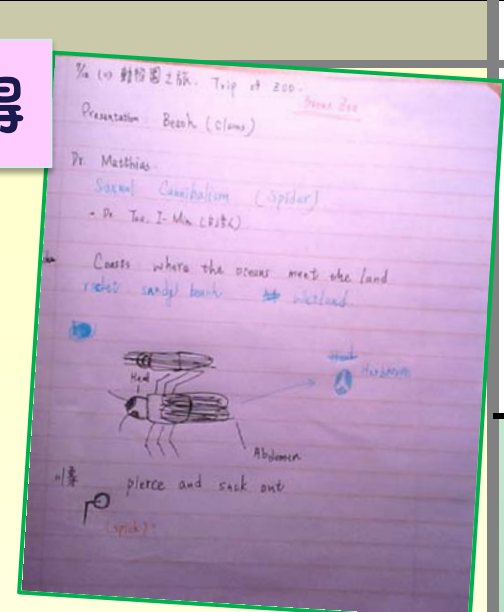
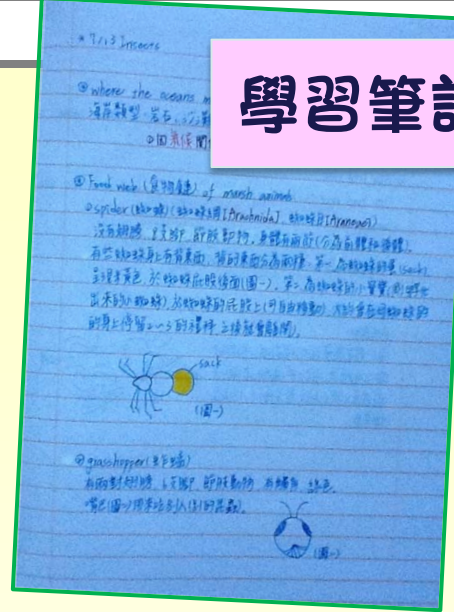
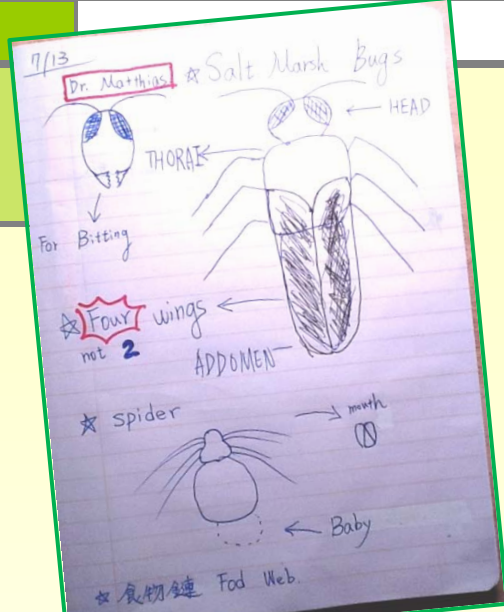
Today is the first day of lesson. Our group learned how to measure the water. The Dr. Beth taught us a lot of things about "water", like the life in the water, the environment of water (sea or river) etc.....And we also do an experiment of measuring water. It was a good experience and we learned a lot from this class. (By Vicky Hsu)



Clam ; Insects
昆蟲的觀察



學習筆記與心得



The moment I walked in Dr. Matter's laboratory, I was shocked by the equipment and lots animals may be used to carry out other experiment.

The climax of the lecture sure came to the chance we can wolf spiders, grasshoppers and other insects which I've never imagined that I would see them so close one day.

Another good experience was that we was given an unknown creature and tried to identify what it is with professional dictionary.

I did enjoy this American teaching way that let students find answers to questions by ourselves instead of just telling us the correct facts. With this first try. I can't wait for the following lectures we will attend for last 7 days.....

(By Cindy Han)

I saw many spiders in Dr. Matter's class. It was so cool! There was a spider mom carrying her babies on its backs. I thought spiders yuk before as many people, but today it changed my mind. Spider is so cool and cute! Its mouth shape is cool, and behavior is cute. What a nice day.

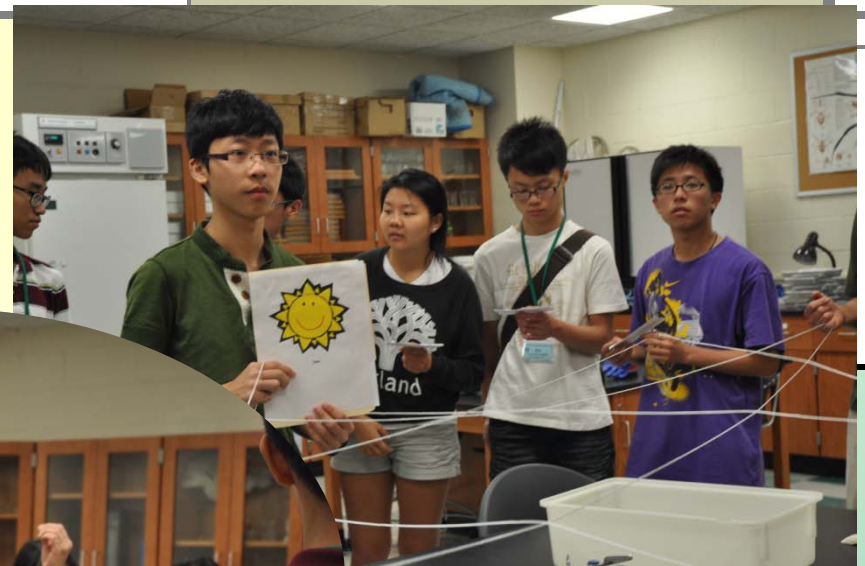
(By Jay Lin)

It was my first time to listen to Dr. Matter's class today. I learn about small marsh animals. I really enjoy this class. Every time when I wanted to see the spider, it ran away. I thought that spiders are very afraid me because I am bigger than it. Spiders are so cute!!

(By Jess Chen)

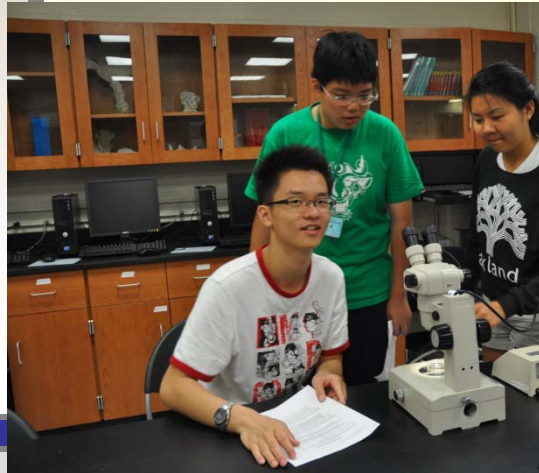
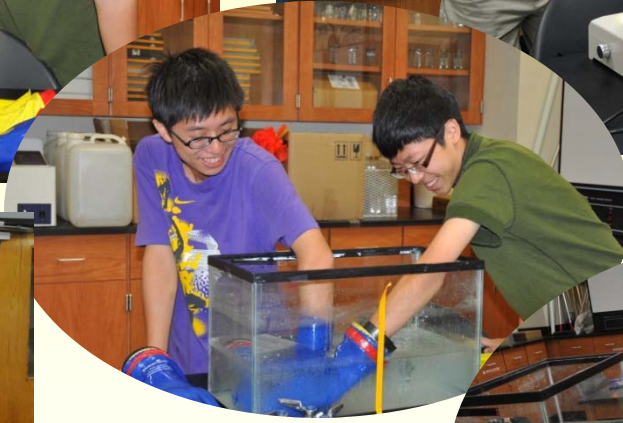
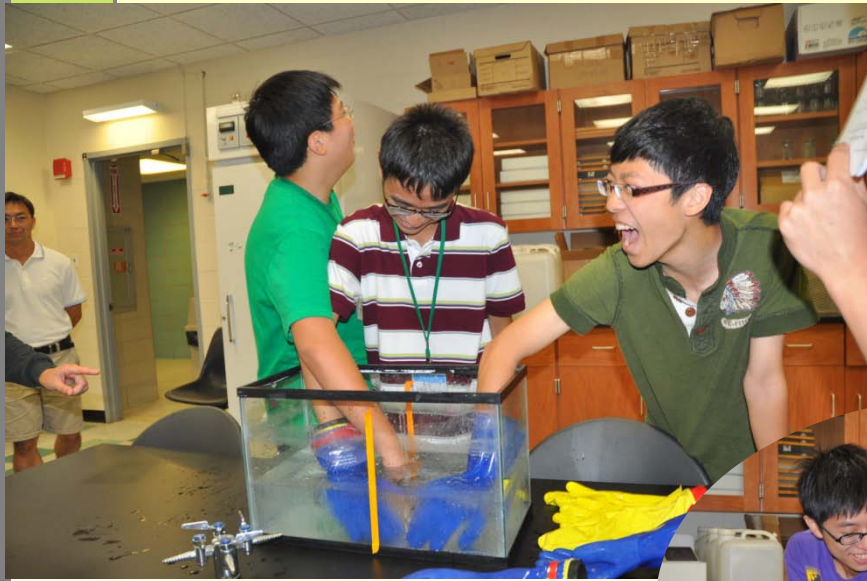
Today, Dr. Matter's taught us how to see animals through the microscope. First, we observed spiders. Some of them have eggs on their back. And then we observed stinkbug, they have head, thorax and abdomen. After that, we locked up a strange animal in a classified index. I really like this lesson and learned a lot from it.

(By Eloria Hu)



Crab : Life in the Water 水中生物鏈





學習筆記與心得

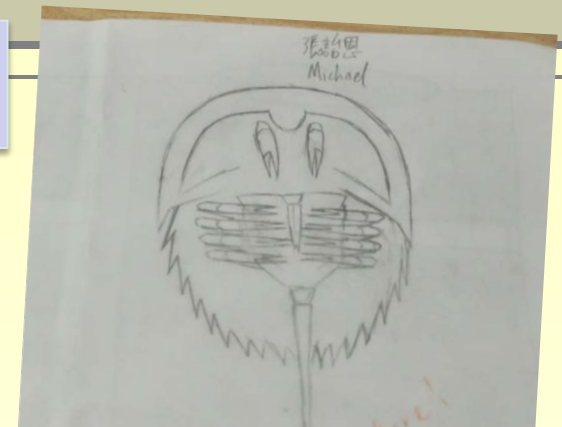
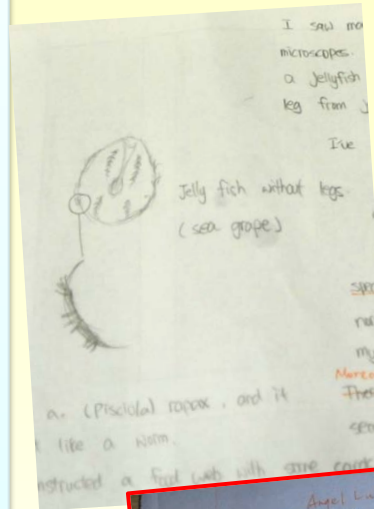
I saw many zooplanktons by the microscopes. It's interesting that I found a jellyfish without legs and a part of leg from jellyfish.

I've experienced keeping my hand in cold water with different gloves. I can keep my hands in the water for 2:45 minutes with the specially insulated gloves. While with normal plastic bag. I could just keep my hands in there for 30 seconds. Moreover, I beat out TA Nick by 30 seconds : 28 seconds. We constructed a food web with some cords that was really funny.

I saw a *Pisciola rapax*, and it is just like a worm. Jelly fish without legs.—sea grape.
(By Phillip Song)

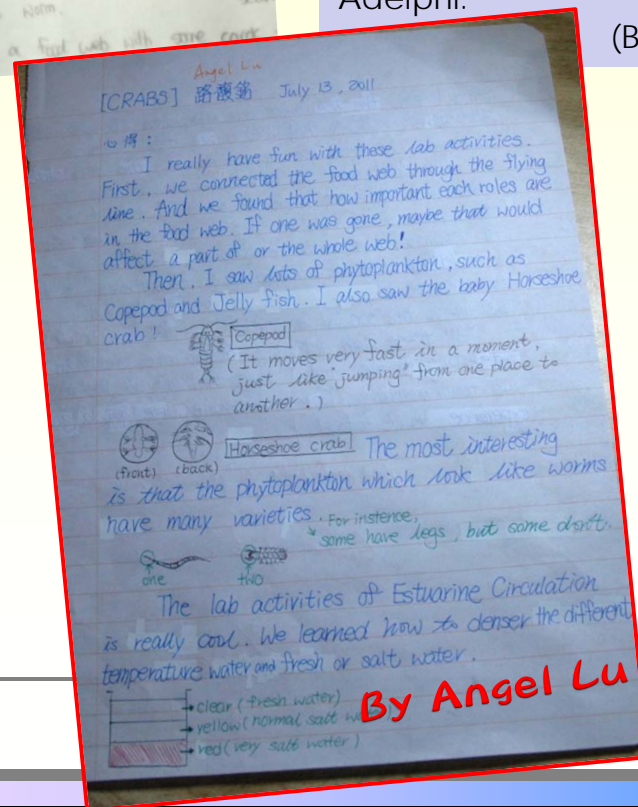
There lots of difference between Taiwan's education and American's. In these lab activities ,I find out that the salt water will sink under the fresh water. And it's the first time I see the "Horseshoe Crab". The ice water was really cold ,and there are lots of stupid classmates just put their hands inside for a long time ,to prove they are brave!

(By Sammy Tsai)



The tank experiment impressed me very much. Different material could make different reflect. I'm glad I could spend all my vacation here in Adelphi.

(By Michael Chang)



10:30 take a break - Tea Time



11:45 After learning - 並說明明日
戶外教學的準備事項



最認真的3位同學→

PM1:30 Computer Time - 電腦教室查資料



Go to Library



PM2:30 運動時間到了! 戶外: 排球、網球、足球



PM3:30 室內: 排球、籃球、慢跑



PM6:30 - 8:30 PLAY 課程

PM8:30 - 9:00 集合晚點名後自由活動時間—螢火蟲相伴校園散步喔

PM11:00 寢室內點名道晚安囉

