| **2010 Summer Stromatolite Camp** | | | | | | |
|---|---|---|---|---|---|---|
| | **Monday 8/9/10** | **Tuesday 8/10/10** | **Wed 8/11/10** | **Thurs 8/12/10** | **Friday 8/13/10** | **Saturday 8/14/10** |
| Location | Darby Island | Darby Island | Darby Island | Darby Island | Exuma Cay Sea Park | Darby Island |
| 7:00AM | | | | **NASA Day** | Leave for park at 7 AM | |
| 8:00AM - 8:30AM | Arrive at Darby | Arrive at Darby | Arrive on Darby | Arrive at Darby | | |
| 8:30AM - 9:00AM | Icebreakers | Icebreakers | Icebreakers | Icebreakers | | **Post Camp Survey and Quiz** |
| 9:00AM - 10:30AM | **Classroom Lecture:** Introduction to the scientific method. Pre-class quiz/survey. | **Classroom Lecture:** Introduction to stromatolites, carbon cycle, pH, and climate change | **Classroom Lecture:** Who makes stromatolites? What are the tools used to study stromatolite biology? What is DNA and how can we use it? | **Classroom Lecture:** What is NASA? And What does NASA do? What does it take to go to space? What do stromatolites have to do with NASA? | Exuma Cay Sea Park | **Work on skits or podcasts for presentations to parents** |
| 10:30AM - 10:45AM | break | break | break | break | | break |
| 10:45AM - 12:00PM | **Scientific Method Exercise: Identify the mystery cansiter-** refer to workbook for details | **Scientific Exercise: Ocean Acidification -** examine the impact a lower pH would have on the oceans; practive taking pH measurements and expose an egg to vinegar. | **Scientific Exercise: CSI Darby (A.K.A. show me my DNA)-** refer to workbook for details | **Alkaselzer Rockets:** Students must determine the optimal amount of water to put in the canister for maximum lift; students can be broken into groups (low, medium, high water levels). As a group students must learn about replicates; data tables; independent and dependent variables | | **Work on skits or podcasts for presentations to parents** |
| 12:00PM - 12:45PM | Lunch | Lunch | Lunch | Lunch | | Lunch |
| 12:45PM - 2:30PM | **Scientific Method Obstacle Course: Let's Move:** Students work in 2 teams and must each navitate their way through the obstacle course to get a piece of the scientific method puzzle. Once all pieces have been obtained the students must put the scientific method clues in the right order. | **Nature Hike to Salt Pond:** refer to workbook | **Drama Exercise**: Students start to work on their presentations. **Break out option:** Podcasting for a few students to create a newscast/or public service announcement of an important issue they learned about in camp. Students must write a few minutes of news copy and then record (using my computer) it as a radio news flash. | **Field work: Geocaching:** Global Positioning Satellites are an important resource to navigating in and around the Bahamas Islands. Students will learn to use GPS to find hidden clues on Little Darby. Students must collect all 6 clues and solve the riddle. | | **Community Picnic: Camp presentation and rocket launch** |
| 2:30PM - 3:00PM | break | break | break | break | | |
| 3:00 - 6:00PM | **Field Work:** Snorkel Safety Review; Practice snorkeling. Underwater treasure hunt (with real treasure!) | **Geological Field Work:** Stromatolite underwater mapping; Students much work in teams and record stromatolite and sand depths. Students will then convert those recordings into an underwater map of the area. Refer to workbook for specific details. | **Biological Field Work:** Survey macro and microorganisms that live within stromatolites | **Rocket Construction:** Work with a partner to build your own rocket. There are many design approaches that you can take. Refer to workbook for the details. | | **Community Picnic: Camp presentation and rocket launch** |
| 6:00PM - 7:30PM | Head for home | Community Dinner on Farmer's Cay-Camp fire roast with hot dogs and s'mores | Head for home | Head for home | | Head for home |
| | | | | | | |
| 7:30PM - 10:00PM | | **Starry Night** - Outside lesson on the night sky and use of telescope to stargaze and spot meteorites | | | | |