

UNC Chapel Hill NC-MSEN Pre-College Program

University of North Carolina at Chapel Hill, School of Education

Summer Academy

Middle School Summer Academy (MSSA)

MSSA students performed hands-on activities in their science class around the following themes – environmental, health, chemistry, forensics, oceanography and physics.

In the math classes, the students did a series of activities introducing them to manipulating problems, algebra and geometry.

Students read the book “The Misfits” and completed the “No Name - Calling Week” exercises that were inspired by the book in the Language Arts class. The purpose of the exercises was to show students the power of words and to show how the students in the story addressed bullying and name calling.

STEM Academy

MSSA and HSSA/SPACE students participated in the STEM Academy (Afternoon activities). During STEM Academy students are required to complete and present a research project. This year’s project was on Giving. Students also participated in “Get Up and Move” which was a program to enhance physical health and proper eating habits. The hands-

High School Summer Academy/NC-MSEN SPACE (HSSA/SPACE).

SPACE students rotated as a cohort in HSSA.

In science class, various activities were performed to focus on Newton’s Laws of Motion.

In the math class, students were grouped and introduced to the concepts in their upcoming math class – Algebra I, Geometry, Algebra II and Pre-Calculus.

Students took a practice SAT test in the language arts class. They received tips on taking the verbal section of the SAT and worked on the SAT essay. Students learned the parts of a scientific report. They did several exercises on how to writing good and

clear directions.

In the Careers class, students took career assessments, made CFNC accounts and did research on the career of their choice.

SPACE students built and tested robots using the Mindstorm 2.9 kits. The HSSA students used the ROBOTS Mindstorm kits. All of the students had an opportunity to build a robot and started to learn how to program the robot to follow a straight line.



Students working on a robot

October 19, 2010
Volume 11, Issue 1



Dog fish shark dissection



Get Up & Move –
Students Exercising



MSSA – Rollercoaster
Physics



HSSA/SPACE - Trebuchets

career options and education needed to pursue some of the public health careers .

Dr. Ibrihim Bori, Pharmaceutical Researcher spoke to student about the importance of education and showed the students his lab.

Greg Feller from OWASA – spoke to students

about the importance of water conservation and the different ways water can be saved.

Wilma Palmer (Red Cross) and Corinne Everett (Volunteer Center of Durham) shared information about their organizations and the importance of giving back. The best Giving projects received medals.

SECME Summer Institute

Three students, William Smith II, RJ Jackson and Jean Christian Barry attended the SECME Summer Institute, June 26 -29, 2010 at Clemson University. They competed in the mousetrap car competition. The students built the car and also had to prepare a technical drawing and technical report.

PERSIST

Students attended the banquet and Leadership Retreat. PERSIST students attended their first Saturday Academy where they talked about their future plans for college.



Erika Bozeman, Jenifer Brown, Janelle Ingram & Sherika Thorpe at the Banquet

GOOD NEWS!!! Jenifer Brown is one of the Semi-finalist for the National Achievement Scholarship

UNC Science Expo

At the Science Expo, PCP students and staff shared information about the Pre-College Program and did the following activities – Hoopster, Sharpie Science, Launching Vehicle and showcased Team #3331's, Tar Heel Robot. The PCP did an excellent job teaching the students and parents how to do the various activities.

Competition Prep – FIRST, SD and SECME

FIRST

JC Penney provided a portion of the registration fee for the 2010-2011 FIRST Robotics Competition. The balance of the fee will come from student registration fees, fundraisers and donations. Members of Tar Heel Robots Team #3331 attended the NC Regional Training, Saturday, October 16, 2010. The team will have the first official meeting, November 11, 2010.

Science Decathlon (SD) & SECME

Students interested in the Science Decathlon and SECME competitions will be meet at a date to be determined.

SCIBLS

Quentajia Small, 11th grade student from Jordan High School was the UNC Chapel Hill SCIBLS representative. Her project title was, "Monkey See Monkey Glow". The project is about a new green fluorescent protein in monkeys. This protein is being studied to help find a cure for one of the most known diseases, Huntington's disease which is an inherited brain disorder.

Quentajia and her partner plan to present their project at OPT-ED Alliance Day, November 12, 2010.

NASA NC-MSEN SPACE

Twenty one SPACE students participated in the HSSA/SPACE. To date, there are now 25 students in the SPACE program. Students will continue to be recruited in order to reach the goal of 30 students

Upcoming Events

- NASA Langley Field Trip and Christopher Newport University Tour, October 29, 2010

Saturday Academy

Session I started October 16th. About 120 students were registered to attend. The middle and high school students rotated between four classes – mathematics, science, language arts, careers (for high school) and competition prep (for middle school).

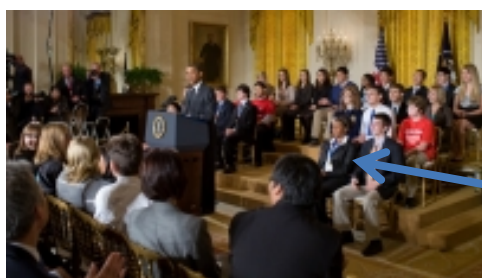
UNC Chapel Hill Senior, Yolanda, Psychology major presented to the high school students about leadership and setting goals.

Parent Academy

The first Parent Academy for the academic year occurred Saturday, October 16th. Parents participated in an opening activity, learned about the history of the Pre-College Program and about the upcoming plans for the PIE Club.

Ret. Col. Larry Campbell spoke to the parents about OPT-ED and the importance of the student pursuing higher level degrees. PERSIST, SPACE, and PCP parents attended.

White House Science Fair – October 18, 2010



Rebecca Small (PCP Assistant Coordinator and National Science Decathlon President) and Quantajia Small were invited to attend the White House Science Fair. Quantajia is sitting in the first row close to President Barack Obama. Sharon Johnson, Chewing Middle School Social Worker and Science Decathlon also attended.

Fall and Winter Calendar of Events

Fall Session Saturday Academy

October 16, 2010

October 23, 2010

November 6, 2010

December 04, 2010

Parent Academy

October 16, 2010

December 4, 2010

UNC CH PCP at State Fair

October 23, 2010

October 24, 2010

FIRST Team #3331 Meeting

November 11, 2010

OPT-ED Alliance Day

November 12, 2010

