



Stuyvesant High School Department of Mathematics

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SUMMER PROGRAMS IN MATHEMATICS

This list represents some of the best summer programs offered in mathematics. Although there are many other programs, I limited the list to those that Stuyvesant students have attended or are highly recommended by reputable organizations such as ARML, the American Regional Mathematics League. ARML sponsors the national mathematics competition that the New York City Math Team competes in each spring at Penn State. The programs listed below are for students who excel in mathematics and truly love doing mathematics.

- 1) The first program, one of the most popular among Stuyvesant students, is in New York City at CCNY and is FREE. The **Macaulay Honors Summer Scholars Academy** provides highly motivated high school students an opportunity to enroll in challenging mathematics or science courses. This program meets for six weeks, four days a week, Monday through Thursday, from 9 AM to 4PM. Math Academy students enroll in two mathematics courses and all students attend a daily hour-long lecture by guest scientists and mathematicians. The day includes a problem solving session where the students study math team type problems and hone in on developing their problem solving skills. Stuyvesant students highly praise this program.
- 2) The second program that many Stuyvesant students attend is **HCSSiM**, the Hampshire College Summer Studies in Mathematics, in Amherst, Massachusetts. This is a rigorous 6-week residential program, where students are actively engaged in learning, doing and sharing mathematics. Professor David Kelly involves the students in his love of the number seventeen and yellow pigs. This program is popular with Stuyvesant students.
- 3) **PROMYS** is a program in mathematics for young scientists. It is designed to encourage motivated high school students to explore the creative world of mathematics. Problem sets are accompanied by daily lectures given by research mathematicians. Each summer, approximately 60 high school students from around the country gather on the campus of Boston University for six weeks of rigorous mathematical activity.
- 4) The **Ross Program**, held at Ohio State University, is an intensive eight week summer course for ambitious high school students talented in mathematics. It is designed to encourage motivated students to explore mathematics; students become immersed in a world of mathematical discovery.
- 5) The **Research Science Institute (RSI)**, sponsored by the Center for Excellence in Education, is a highly selective, academically rigorous program. Approximately 80 students participate in a six-week practicum at **MIT** focused on advanced research in the areas of mathematics, engineering and related scientific disciplines.

- 6) The **Awesome Math Summer Program** is a three-week camp designed to hone high school students' mathematical problem-solving skills up to the Olympiad level. This program is for mathematically gifted students. They accept approximately 120 students and are located on the campus of the University of Texas in Dallas.
- 7) **Canada/USA Math Camp** is an intensive five –week summer program for mathematically talented students. Part of the student application includes a Qualifying Quiz. Each student in the program designs a program of study reflecting his or her own mathematical interests and ambitions. The location changes from year to year. Math Camp 2009 will be held at the University of Puget Sound in Tacoma, Washington.
- 8) **The Texas Math Works Honors Summer Math Camp** is a 6-week residential program for talented high school students in grades 9-12 at Texas State University. The goal is to engage students in doing mathematics at a high level, to teach students to reason rigorously and precisely, and to develop questioning minds.

If you are considering math camp for your child, please be cautious. Check the number of years the camp is in existence, the credentials of the instructors and ask for references. Internet makes it easy to research quality programs.

Finally, do not feel that your child must attend an expensive summer program to get accepted into the college of his or her choice. **Summers spent working, volunteering and traveling are also looked upon favorably by universities and colleges.**

If you have any questions please feel free to contact me.

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