



CHAMP

The Cooperative Highly Accelerated Math Program

August 2012—May 2013



2012-2013 CHAMP 2
Students

Audience Fifty-four (54) students grades 7-10 participated in the CHAMP Program. Thirty-three (33) students were in CHAMP Year 1; twenty-one (21) were in CHAMP Year 2. Thirty-six (36) were male; eighteen (18) were female. Four (4) students received financial assistance. Eligibility criteria for CHAMP are: SAT Math score of 530 and a Total score of 1010 or ACT Math score of 21 and a Composite score of 23.

Funding The CHAMP program receives funding from the W.B. and Candace Thoman Foundation to provide a counselor. The Dart Foundation also provides funds to keep tuition costs down. Student tuition is used to support the remaining program costs. Support from the MSU Mathematics Department provides four professors for 2 and a 1/2 hours of instruction each Thursday afternoon.

Objectives This program seeks to

- * identify 6th-8th grade students who perform extremely well in mathematics;
- * develop students' mathematical potential through the use of appropriate curriculum and instructional pacing commensurate with their abilities;
- * coordinate with multiple school systems and existing community resources to successfully meet the needs of highly gifted students within the framework of the regular school day.

Students completing CHAMP are expected to return to their home school and take AP calculus. They should then consider dual enrolling at their local university or college for additional math courses.

Description Year 1 of CHAMP covers Algebra I and Algebra II and one unit of Statistics. CHAMP Year 2 covers Geometry and a standard pre-calculus course of Trigonometry, Analytic Geometry, College Algebra and a brief introduction to calculus concepts. Students in each year attend class Thursday afternoons from 1:00-3:30. All four classes are instructed by full time MSU mathematics professors. Class size is limited to 15-19 students. Additional study sessions are held Sunday afternoons and Tuesday evenings in Wells Hall. Seven MSU Math TAs assisted in the labs. Students also have access to LON-CAPA and the MSU Math Forum for 24/7 online assistance. An orientation session is held the last week in August, bringing students to campus to set up their MSU e-mail and NetID and to tour campus and their classroom. Fifty-two (52) students applied for CHAMP Year 1, thirty-three (33) were

accepted into the program. There is 157.5 hours of contact time in this program including labs.

Outcomes

In surveys, CHAMP students referenced time management and study skills as two of the major benefits of the program. Many felt that these two assets would prove beneficial when attending college. Students also felt that the accelerated pace of the program was a valuable challenge to their learning. They strongly agreed that having their math skills challenged was a positive aspect of the program and that they would not have had this experience in a conventional school setting. 100% of the Year 1 and Year 2 CHAMP students rated their learning experience as either "excellent" or "good". Many former CHAMP students in the past have applied for dual enrollment at Michigan State University. These students usually enter MSU enrolling in MTH 152H, MTH 234 or MTH 235 having completed AP Calculus AB or BC at their home school.

100% of the parents of students in CHAMP Years 1 and 2 responded that the quality of the program was "excellent" or "good", and 100% were pleased to have their child in the program. 88% of the parents stated that their student's other schoolwork did not suffer from the workload required for CHAMP.

The majority of the students are from Ingham county with participants from Shiawassee, Eaton, and Clinton counties bringing urban and rural students together on MSU's campus.

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