

To whom it may concern,

We are a student-led group at Carleton College and are organizing the first Carleton Math Competition. We invite your students to participate in this annual, one-day event for high schoolers, to be held at Carleton College on Saturday, April 1, 2017.

We believe this competition will be an excellent opportunity to introduce students to interesting and novel mathematics, and to engage in enjoyable and challenging activities with other mathematically inclined students. We encourage you to share the attached information with students and teachers at your school.

Registration and fees are due (to Math/Stats Department, Sue Jandro, Carleton Math Competition, 1 N. College Street, Northfield MN, 55057) by **March 1, 2017**. If you are interested in participating or if you have any questions email us at [cmregister@carleton.edu](mailto:cmregister@carleton.edu).

Sincerely,

JordiKai Watanabe-Inouye  
CMC Registrar / Master of the Schedule  
On behalf of the Carleton Math Competition Planning Board

## **Details of the Carleton Math Competition**

The Carleton Math Competition is a non-profit student-organized annual event that engages high school students in challenging and novel mathematics. Students will participate in the competition as groups of up to six. Schools may send as many teams of students as they wish. All students will participate in individual and team rounds, and exceptional performances in both will be recognized at the end of the day.

Date: April 1<sup>st</sup>, 2017

Venue: Carleton College, Northfield MN

Duration: All day (Check-In is at 8:00am and the Award Ceremony ends at 4:30pm)

Cost: \$12 per attendee (students + coaches)

We will be running four different rounds: Power, Individual, Team, and Carleton Special.

### ***Power Round***

The Power Round will be distributed one week before the competition for teams to complete. It is a proof based round, focusing on a specific branch of mathematics.

### ***Individual Round***

In the Individual Round each student will complete two individual tests from the following categories: algebra, geometry, number theory, combinatorics, sequences/series, and complex numbers. Each test will be 45 minutes.

### ***Team Round***

The Team Round is a hour long test that contains questions from an array of topics. Both the individual and team rounds will be done before lunch.

### ***Carleton Special Round***

This year, the Carleton Special Round will be a team round focused on problems in which students are expected to arrive at an approximate answer (e.g. the sum of all of the primes between 1 and 1,000,000). More points will be awarded for more accurate responses.

There will be a Math Talk given by one of Carleton's Faculty before the Awards Ceremony at the end of the day.

You will be responsible for finding lodging (if necessary) and transportation. We will provide lunch.

To register for this event:

- (1) Fill out the registration sheet. One registration sheet should be filled out per team.
- (2) Have each participant (student + Coaches sign the attached waiver)
- (3) Put the waivers and registration sheet into an envelope along with the necessary fees and mail everything to (Math/Stats Department, Sue Jandro, Carleton Math Competition, 1 N. College Street, Northfield MN, 55057)

If you have any questions feel free to contact us at [cmcregister@carleton.edu](mailto:cmcregister@carleton.edu)!

Sincerely,

Zephyr Lucas

CMC Mastermind

On behalf of the Carleton Math Competition Board