



BRIGHT MATH CAMP

Bright Math Camp is a not-for-profit camp, external event, operated by Bright Math Camp Inc. for the promotion of mathematics.

www.ncf.ca/~au680/index.htm

613-286-4347

Now in its twenty sixth summer in Ottawa, the Bright Math Camp represents a unique out-of-school academic project that is a learning opportunity for children with a drive to explore, to question, to reason, and to discuss a range of sound mathematical topics. These topics, demonstrably well suited to children's level and interests, derive from areas apart from the mainstream of school mathematics, and are introduced and developed from first principles. Our most successful topics have related numbers and numeration, arithmetic operations, number theory, combinatorics, informal geometry, probability and statistics, non-routine problem solving, and recreational cryptography.

CAMP #1

ENTERING GRADES 4, 5, 6

New and Returning Students (July 10-14, 2017)

Location: **rented facility at the University of Ottawa.**

Room # (to be announced).

Recreational Mathematics

Geared for younger students, this program teaches the joy of mathematical discovery and exploration. Many topics will be covered in both the older and younger groups. Learn about other numbering systems, special kinds of numbers (like square, triangular, and perfect numbers), and the fun of solving mathematical puzzles. Play math games with friends. Discover origami, the Japanese art of paper-folding. The skills learned in this program will be a big help in school, and not just in math classes.

Study Skills Strategies (1hr.)

Junior school students need to study too! It is never too early to develop good study techniques, and these are the years when many of the fundamental skills such as reading comprehension and the times tables are reinforced. Now is the time to learn how to recognize your strengths and use them to make learning easier and more enjoyable. We will explore reading (whether you read one book a day or one a year), test-taking, and the development of study skills which will be useful for years to come.

Swimming (one day for 1 hr.) Free swimming.

CAMP #2

ENTERING GRADES 7, 8, 9

New and Returning Students (July 17-21, 2017)

Location: **rented facility at the University of Ottawa.**

Room # (to be announced).

Recreational Mathematics

There's a lot more to math than what's taught in school – it can be a source of wonder, surprise, and yes, fun! Come discover why mathematics has fascinated the world for millennia. Some of the topics we'll cover include prime numbers, mathematical games like Hex and Sprouts, tessellations, cryptograms and cryptarithms, hailstone numbers, polyominoes, 3D geometry, problem-solving techniques, and origami. Emphasis on hands-on learning. Amaze your math teachers!

Study Skills Strategies (1hr.)

Intermediate school brings new challenges in study strategies for even the brightest student. This section will, through discussion and practise, introduce techniques for reading, essay-writing, note-taking, and long-term memorization. Ways to combat perfectionism, procrastination and boredom will be some of the more specialized topics we will explore.

Swimming (one day for 1 hr.) Free swimming.

Hélène Desrosiers-Grégoire, MA Psychology, is the Coordinator of the camps. She can be reached at mobiles 613-286-4347 or **613-315-1946**, hdgregoire@rogers.com

Colin Hayman, M. Math in Pure Mathematics, teaches the math part of the camps. He is a graduate of many of Dr. Allen's math camps, with sixteen years' experience teaching math, science, origami, and chess. In past years he has run a highly successful math and origami course for the Association for Bright Children. He also tutors extensively and has assisted with past Bright Math Camps and Mini-Courses at Carleton University.

Dr. Don Allen, Santa Clara University masters under the National Science Foundation and master and doctorate (Mathematics Education) from Rutgers University, who as past consultant taught and tailored the math part of previous camps. He devoted more than 20 years of combined summers teaching able, motivated children in the McGill University's "Explorations" and in Bright Math Camp programs. Recent work has involved him with children in remote communities of Canada's Eastern Arctic. His 44 years' teaching in Quebec, Nova Scotia, and the Territories are evenly divided between teacher education and classroom practice. From 1980 to 1990 he was editor of the US-based *Mathematical Log*.

Jennifer Hayman, M.A., offers the study skills part of the camps. She is a private tutor and teacher with more than twenty years of experience, specializing in study skills for all ages, essay-writing, Latin, and working with the gifted and the gifted-learning-disabled.

Marc Lecours: teacher for the strategy game GO, (wei chi).

Accommodation at a cost may be available on campus. Check with Conferences and Reservations Office of the University of Ottawa.

We thank the following collaborator: Chess'n Math Association for supplying chess material. 613-565-3662, chess-math.org

P.S. As an external event from outside of the University of Ottawa, the Bright Math Camp is considered as a category of clients who are not officially affiliated with the University of Ottawa but can rent from the University Conferences Office some facilities to run its event. It is not organized by the Department of Mathematics and Statistics.

Registration instructions:

Registration for either camp takes place on a first-come, first-served basis. To register, a complete application must be received no later than Thursday June 29, 2017. The complete application shall be mailed to Bright Math Camp Inc., 6 Jeremiah Place, Ottawa, K2H 8L8, and shall consist of the following:

- a complete camp registration form (Camp #1 and/or Camp #2);
- a signed waiver of responsibility;
- a signed consent form regarding the taking of photographs;
- a signed acknowledgement of peanut allergies; and
- a cheque in the amount of \$680
- No post-dated cheques; an NSF cheque will result in an administrative charge of \$50.

To obtain the above forms, please visit the Bright Math Camp Inc.'s website at www.ncf.ca/~au680/index.htm and click on "Registration" from the left menu bar. Alternatively, you may request the forms by contacting Hélène Desrosiers-Grégoire (see contact info above). Upon receipt, your application will be reviewed, and acceptance into a camp will be confirmed by telephone or email. Registration may only be cancelled in writing up to June 29, 2017, but a cancellation fee of \$75 will apply. There will be no refund for cancellation after June 29, 2017