

Mathcamp 2026 List of Useful Resources

During High School

- Join or start a **math club** or a **math circle**. These generally involve learning about interesting math and problem solving, and a surprising number of Mathcamp alums and staff teach at these! Search <http://www.mathcircles.org/> for circles near you, or talk with your fellow campers about starting a circle for your region.
- Take or teach a **Splash class**. (You can volunteer to teach even while you're still in high school!) Find one near you: <https://www.learningu.org/current-programs/when-and-where>.
- **Study math online**.
 - AoPS (<http://www.artofproblemsolving.com/>). Has discussion forums, too.
 - MIT Open Courseware (<http://ocw.mit.edu/>)
 - Take classes in **proof-writing** at Euler Circle (<https://eulercircle.com/>). Now offers need-based full scholarships; also has an in-person option in the Bay Area.
 - Specifically for female and non-binary middle and high school students: Athemath (<https://athemath.org/>) offers contest preparation in community. Many Mathcamp current students and alums on the staff and board.
- **Teach math online!**
 - Po-Shen Loh's **LIVE** (<https://live.poshenloh.com/>) is recruiting (and training) dynamic teachers. (Many Mathcamp alums are currently on staff there!)
 - **San Antonio Math Include** (<https://mathinclude.org/>) is a great program founded by a Mathcamp alum which aims to increase access to STEM education.
- Share the cool math you're learning! **Contribute expository content** to TED-Ed (https://ed.ted.com/student_talks).
- **Become a mentor** to a middle-school student, or **find a mentor** who is a college student or grad student. In particular, there's a mentor network specifically for women in math: <https://awm-math.org/programs/mentor-network/>.
- Apply to be a **World Science Scholar** (<https://worldsciencescholars.com/>). Aimed at high schoolers, but entering cohorts are ages 9–17, worldwide; each cohort does a 2-year program.
- Apply for the **Nontrivial Fellowship** (<https://www.non-trivial.org/>). 8-week on-line program with a \$15,000 first prize.

- Participate in research programs, like:
 - **MIT PRIMES** and **PRIMES USA** - <http://web.mit.edu/primes>
Year-long program for high school juniors; apply by November 30.
 - **RSI** - <https://math.mit.edu/research/highschool/rsi/index.php>
Summer program for rising high school seniors.
 - **Simons Summer Research Program** - <https://www.stonybrook.edu/simons/>
Summer program for rising high school seniors.
 - **Summer Science Program (SSP)** - <https://ssp.org/program-overview/>
Also for rising seniors: Astrophysics, Biochemistry, and Bacterial Genomics
- Submit work to science competitions. Bonus: some of these give money for college! Some programs include:
 - **Regeneron Science Talent Search** - individual research competition for high school seniors: <https://www.societyforscience.org/regeneron-sts/>
 - **Intel ISEF** (International Science Engineering Fair). Start at an Intel ISEF affiliated science fair, which you can find at <https://findafair.societyforscience.org/>.
 - **Junior Science and Humanities Symposium** (<https://www.jshs.org/>)
- Submit work to **journals**. Journals that specifically target high school and undergraduate students include:
 - **Math Magazine** (<https://maa.org/publication/mathematics-magazine/>)
 - **Math Horizons** (<https://maa.org/mathhorizons/>)
 - **INVOLVE** (<https://msp.org/involve/about/journal/about.html>)
 - **Journal of Emerging Investigators** (<https://emerginginvestigators.org/>)
 - **Frontiers for Young Minds** (<https://kids.frontiersin.org/>) – for 8-15 year olds; accepts expository articles.
- For students in high school (all nationalities): **Finish your high school abroad**. For example, United World Colleges (<https://www.uwc.org/>) offers an IB programme, and there are dozens of similar schools.
- Attend **Maths Beyond Limits** (<https://mathsbeyondlimits.eu/>), an immersive, residential math program founded by Mathcampers, with beautiful math topics and a highly participatory spirit. (Talk to Ania to learn more!) MBL takes place each year for two weeks in September in Poland; MBL-Balkans takes place for 10 days in March in Bosnia and Herzegovina; MBL-Sweden takes place for 10 days in July. Stay tuned for more locations in the future.

- Attend math conferences!
 - The math department at colleges or universities in your geographic area might host conferences (or even community outreach events) throughout the year.
 - Mathfest (<https://www.maa.org/meetings/mathfest>) is a large, mathematically-accessible MAA event that happens each year in August. (In 2027: New Orleans, LA; 2028: San Diego, CA.)
 - The Joint Math Meetings (<http://jointmathematicsmeetings.org/>) is an AMS conference that happens every January with specific components for high schoolers. (In 2027: Chicago, IL; 2028: Philadelphia, PA.)

Scholarships and Funding Opportunities

There are lots of awards to support students studying mathematics. Examples include:

- **Mu Alpha Theta** - <http://www.mualphatheta.org/>
MAT awards up to \$5000 scholarships to outstanding chapter members.
- **Davidson Foundation** - <http://www.davidsongifted.org/>
Very substantial awards for significant projects by students age 18 and younger.
- **Jack Kent Cooke Foundation** - <http://www.jkcf.org/scholarship-programs/>
JKCF gives awards to talented students with financial need – including an award for high school seniors that gives up to \$30,000 per year to attend a 4-year college.
- The **MATHCOUNTS** Alumni Scholarship - <https://www.mathcounts.org/about/mathcounts-alumni-scholarship>: \$3,000 awards for alumni.

Gap Years & Things Besides College

You don't have to go directly to college! Gap years are a great option. Talk to Mathcamp alums about all the cool things they've done during their gap years.

During College

You can continue to apply for funding, submit research and expository work to journals, and attend conferences. Many colleges also have opportunities for students to engage in outreach (e.g., Splash), and you can talk with faculty about doing independent study, reading projects, and research.

If you like proof-based contests, try your hand at the Putnam (<https://maa.org/putnam/>).

College is a great time to study abroad! Budapest Semesters in Mathematics (<https://www.budapestsemesters.com/>) is a semester-abroad opportunity for math students.

Or travel virtually: Math in Moscow (<https://mathinmoscow.org/>) is currently operating online.

Your summers during college are a part of the college experience. Do fun things that help you figure out what you want to do after college:

- Apply to be a JC!
- Attend research programs. Many schools have summer research programs for their own students, and many host REUs (Research Experiences for Undergraduates). The University of Chicago runs an REU that targets first-year college students. In Canada, there are NSERC-USRA awards for undergraduate students to do summer research. The Fields Institute also runs a summer program based in Canada.
- Learn about non-academic jobs through internships. There's a helpful starting list here: <http://www.ams.org/programs/students/emp-internships>.
- Study abroad! Your school might have its own summer study abroad programs. The Budapest Semester in Mathematics also runs a summer program (for students from any college or university).

Sharing ideas with fellow Mathcampers

Most importantly: talk to your fellow Mathcampers about cool opportunities! Use the Mathcamp 2026 email list and the all-alumni email list to stay in touch.

Let us know if you have suggestions for other cool things to add to this resource list – and keep following your curiosity and exploring!