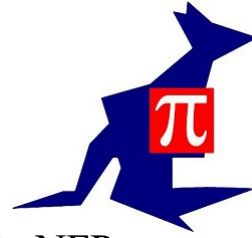




Math Kangaroo Bulletin



The bulletin of Math Kangaroo USA, NFP

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www.mathkangaroo.org



Joanna Matthiesen,
Chief Executive Officer



KANGOUROU SANS FRONTIERES

Math Kangaroo USA celebrates its silver jubilee this year – it's been 25 years of Math Kangaroo in the USA. Math Kangaroo started in 1998 with just 32 participants in one state. This year we registered over 30 thousand students from all 50 US states. Hundreds of schools participated in 2022. We look forward to getting to know more schools that are interested in hosting Math Kangaroo in-person or online. This upcoming Math Kangaroo 2023 season we want to awaken even more excitement of teachers, after-school educators, homeschool facilitators to start a new tradition of hosting Math Kangaroo. I am grateful for all the teachers and the parents who see the value of hosting this event year after year and celebrate with us the successes of their students.

It is worth mentioning also that Math Kangaroo in the world celebrates 30 years of Math Kangaroo – it's been that many years since Math Kangaroo activities started in Europe. The headquarters of Math Kangaroo is, as it's originally established, in Paris, France. Now there are over 90 countries participating in the competition with over six million students engaged. The great success of Math Kangaroo can be attributed to interesting math problems that are unique and thought provoking. The problems are carefully written to ignite an interest and test the knowledge of students of all intellectual abilities as they consist of three parts of difficulty: easy, medium, and hard. The problems come from all parts of the world as all participating Math Kangaroo countries engage in submitting problem proposals. We hope our US students enjoy the creativity of the math problems.

And here is a summary of the Math Kangaroo activities that happened last year and the new projects that we look forward to completing.

During the last year our team worked diligently to come with new ideas to serve our mission on many different educational levels. And this is what we did:

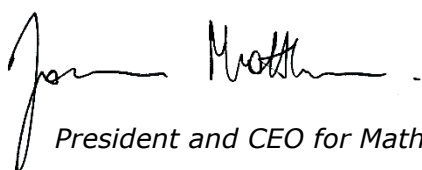
- Launched a new website with a student friendly interface.
- Began a monthly newsletter to share the information on a more consistent basis.
- Published a new book for grades 5 and 6.
- Designed and extended Math Kangaroo Curriculum for grades 1 to 6 to teach our students techniques and strategies of solving word and logic problems.
- Started Math Kangaroo online classes for grades 1 to 6.
- Facilitated competition prep webinars for hundreds of students.
- Created a volunteering opportunity for our high school students and alumni to help with running prep classes, creating new math questions, writing solutions, making videos, designing graphics, or sharing creative ideas.
- Collaborated with several educational institutions that opened our horizons to create new free opportunities for learning.

In the upcoming year we plan to work on the following assignments:

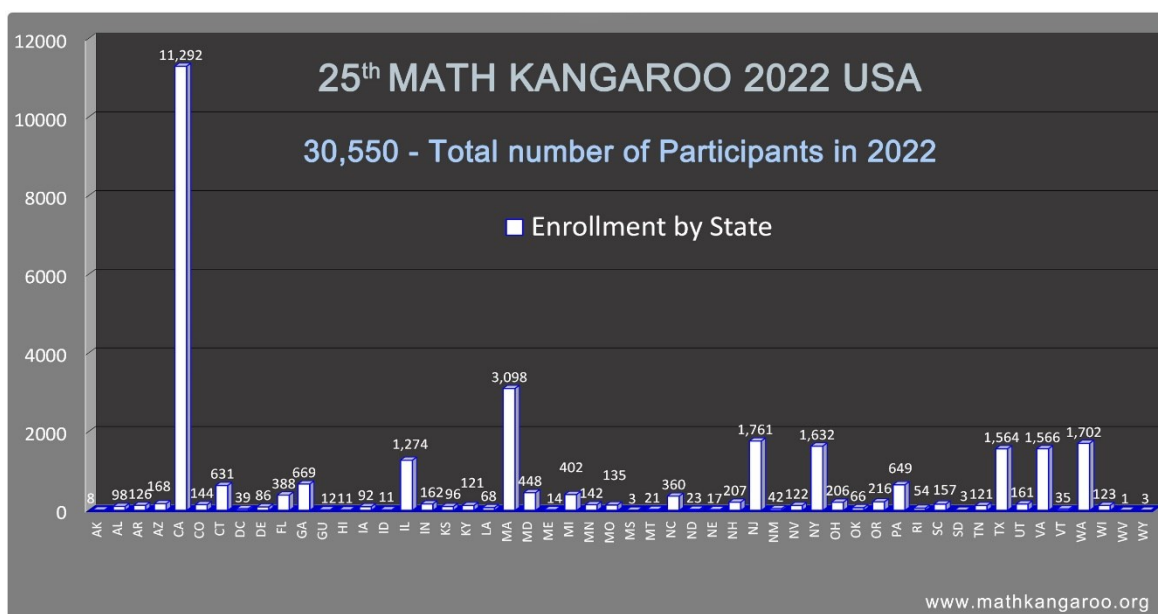
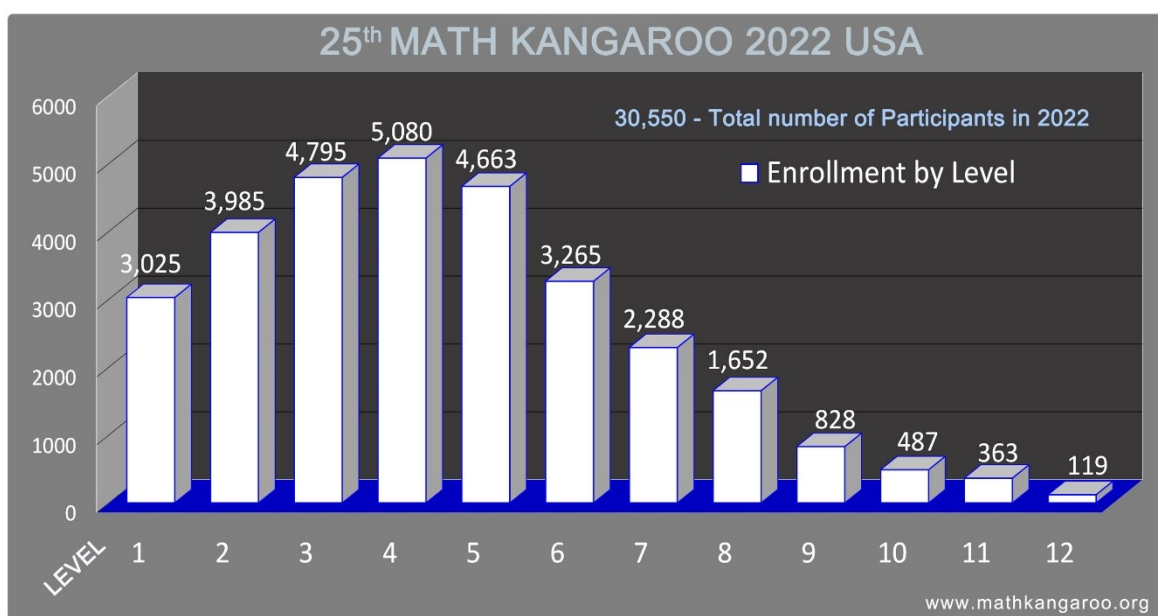
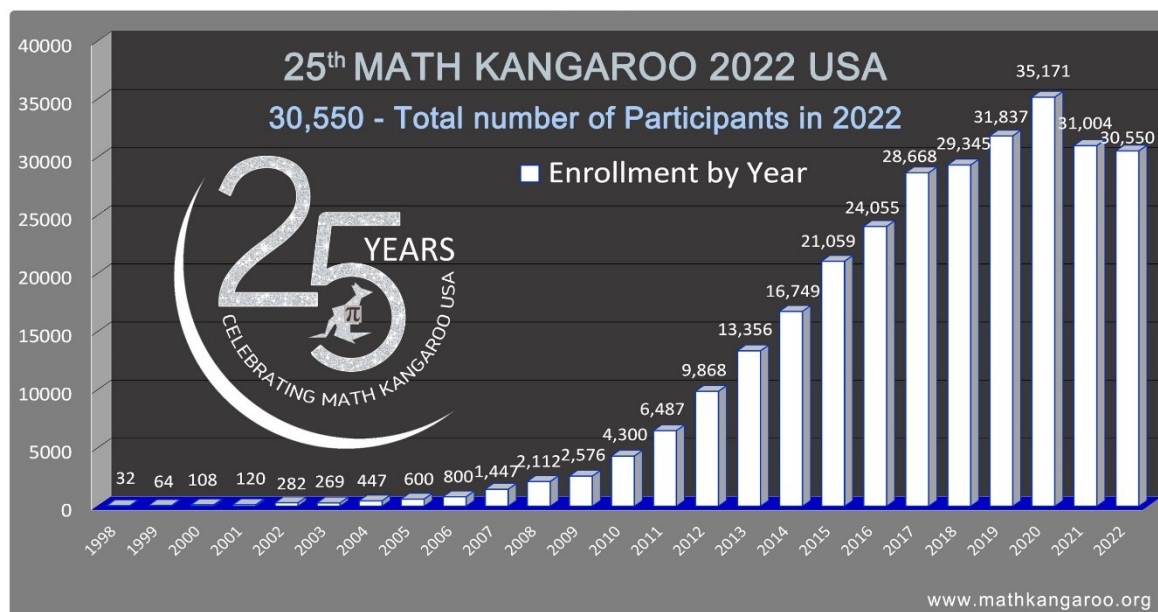
- Make an improvement for the faculty site to make the navigation easier.
- Create a control tool for faculty to proctor their students in a convenient way.
- Work on polishing, finalizing, and publishing a book for grades 7 and 8.
- Design Math Kangaroo Curriculum for grades 7 and 8.
- Create Math Kangaroo classes and webinars for grades 7 and 8.
- Seek more partnerships with educational like-minded organization.

I look forward to collaborating with our amazing Math Kangaroo team to fulfill our mission of helping students love math nationwide in this 25th year of Math Kangaroo in the USA and 30th year in the world.

Joanna Matthiesen



President and CEO for Math Kangaroo



[More metrics...](#)



**Izabela Szpiech,
Chief Financial Officer**

We finished another MK edition with lots of awards, special recognitions, and college grants. For full details please visit: <https://mathkangaroo.org/mks/awards/>

How to prepare for the competition and be among the winners? Practice makes a man perfect so why not take advantage of the variety of educational resources we provide? These are booklets of previous MK questions and their solutions, books, MK webinars, MK online classes, and more. I believe that everybody will find at least one kind of our materials or programs that suits him best. Please check our Catalog at <https://mathkangaroo.oasis-lms.com/Public/Catalog/Home.aspx>. Do not forget to use the discount codes which are designated for all enrolled students. The codes are provided on the user account along with the center info where a student is enrolled to.

I would like to spend a little more time on grants and special recognition prizes for the twelve-grade winners. This year was abundant in monetary awards. There were 9 students who qualified for the best MK prize, the college grant of \$1000.00. The winners of this grant are Alex Gu, James Rydell, Saathvik Selvan, Dmitriy Shvydkoy, Kevin Zhao, Andrew Lee, Daniel Salkinder, Arushi Mantri, and Justin Li. Two senior students, Tony Tzolov and Chirag Verma were recognized with the \$750.00 monetary award, and Clarence Lam, Rahul Bansal, and Nathra Ramrajvel received a prize of \$500.00. Please read the feedback which we received from the presented students. Their words are fuel for our work and keep us convinced of the importance of programs such as Math Kangaroo. Congratulations on all your achievements and good luck at college and with pursuing your future career!

I must highlight the importance of the financial contribution we received from parents and other donors during the past MK year. Thanks to such generosity we are always able to accommodate students whose families suffer from financial hardship. The donations also help us to develop new features and programs which help students to master their math skills. We received close to \$49,000.00 donated by almost 4400 contributors. From the bottom of our hearts thank you, All our donors, you make a difference!

Math Kangaroo is a 501(c)3 Public Charity Organization type 50/50, EIN 20-0076861, and donations to the organization are tax exempt. For the direct contribution, please click here [DONATE](#). Although the link leads to PayPal, you do not need to have a PayPal account to donate to Math Kangaroo. Please proceed with the payment through the PayPal link, next page will show you the option to pay by credit/debit card directly. You may also consider checking with the company you work for if it is enrolled in the donation matching program and choose Math Kangaroo USA, NFP to allocate your contribution.

To all our participants: I wish you a very successful school year and top results on our upcoming Math Kangaroo 2023 test in March!



Reflections about Math Kangaroo Competition



Alex Gu
San Jose, California

Thank you so much for this generous award! Math kangaroo has been an amazing opportunity and experience for me throughout the years!

I've participated in Math Kangaroo every year starting from elementary school. It's amazing how every year we have the opportunity to try out new and unique problems, more challenging with every level. These fun and creative problems have been influential in sparking my passion for mathematics and problem solving from an early age, which led to my continued pursuit of mathematics. I eventually competed in the AMC series, taking proof-based Olympiads like USAMO.

To me, Math Kangaroo has been most helpful in establishing my problem-solving skills and foundation to prepare me for more advanced studies. The unique way of thinking demanded by math contests like Math Kangaroo has proved invaluable, whether studying higher math, physics, or other sciences. I am also thankful for the opportunity to participate in the Math Kangaroo International Camp in Zakopane, Poland, where I met many new friends and listened to inspiring lectures from professors.

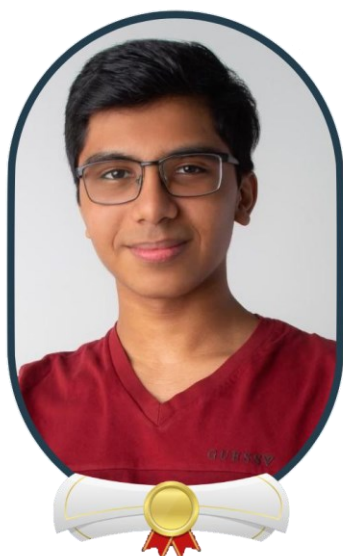
I will be attending MIT this fall, studying physics and math.



Andrew Lee
Northborough, Massachusetts

I remember taking the Math Kangaroo, my first math competition, in the 4th grade where I was first introduced to math that involved creative problem solving. I immediately fell in love with these types of problems that challenged me to think outside of the box, and the Math Kangaroo served as a gateway for me into more math competitions like the AMC series as well as math research.

I hope Math Kangaroo will continue to inspire many others like me to explore the beauty of mathematics more deeply.



Saathvik Selvan
Plantation, Florida

Ever since I first began competing in Math Kangaroo in first grade, I have always looked forward to this yearly competition, filled with interesting problems. Compared to traditional competitions such as the AMCs, Math Kangaroo has a stimulating mix of logic and mathematics which encourages students to think in unconventional ways. Over the years, I have witnessed my improvement as I started getting higher scores and placing higher, which motivated me to try harder and learn more.

When I couldn't figure out problems from the competition, I would often take home the tests and try various approaches until I finally got the answer. The satisfaction and enjoyment I gained were unparalleled, and these experiences have been instrumental in developing my passion for math.

Additionally, Math Kangaroo has given me many chances to meet other talented mathematicians. In 2019, I had the opportunity to travel to Zakopane, Poland as a representative of Math Kangaroo USA. There, I was not only exposed to students from other countries but also bonded with fellow mathematicians from the United States. It was an experience I will never forget, and the friends I made then will remain with me for the rest of my life.

I plan to attend UC Berkeley in the fall, where I will be pursuing a major in Electrical Engineering & Computer Science with a potential major or minor in Mathematics. I'm sure that participating in Math Kangaroo has prepared me well to explore the areas of Artificial Intelligence and Machine Learning, and I hope to come up with innovative ideas in the future.



Dmitriy Shvydkoy
Hinsdale, Illinois

I've been participating in Math Kangaroo every year since 2nd grade, and every year I've always looked forward to the contest. Math Kangaroo has been an integral part of developing my love for math through a competitive yet fun atmosphere. Because of Math Kangaroo, I joined my school's math team in middle school and started competing in many other contests in high school.

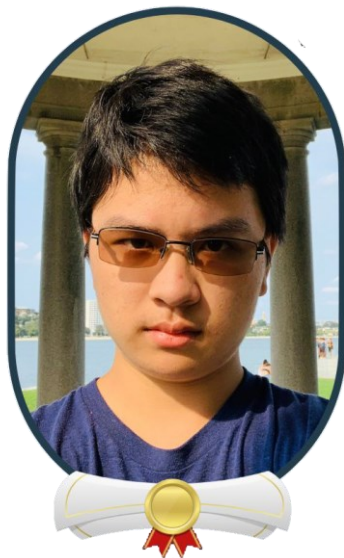
Next year I'm moving on to the next stage of my life at the University of Illinois at Urbana-Champaign, continuing my passion for math by majoring in mathematics.



James Rydell
Ladera Ranch, California

I have really enjoyed the interesting and engaging problems over the years, and each year have looked forward to participating in this wonderful program. Whether I'm analyzing puzzling graphs, simplifying a unique algebraic expression, or trying to visualize a tricky 3d shape, I always know Math Kangaroo will provide exciting, interesting, and unique problems in each year's competition, different from any other math competition I've competed in.

Once again, I just wanted to say thank you both for the college grant and for many years of enjoyable math competitions.



Kevin Zhao
Lexington, Massachusetts

I first discovered my passion for math in the fourth grade after participating in that year's Math Kangaroo contest - my first contest ever. Those problems were so interesting and fun. There were plenty of problems that required logical thinking, many of them relevant to daily life. Those enjoyable, fascinating, and somewhat "nonstandard" math problems challenged one's creative problem-solving skills.

Additionally, Math Kangaroo has always given generous awards and hosted formal award ceremonies for numerous participants. So, as a young kid, I was also excited and proud of being invited to attend the annual award ceremonies.

My passion for math was sparked by all these attractive aspects of Math Kangaroo. Since fourth grade, I have enjoyed the annual Math Kangaroo contests. I also expanded my passion for math to other competitions such as MATHCOUNTS, AMC contests, ARML, and college math competitions. Besides competition math, I also began enjoying math-related research. Math Kangaroo also fueled my interest in other STEM subjects, such as computer science and physics, in both of which logical thinking like that of Math Kangaroo is essential.

I will be attending MIT, and I plan on double majoring in Mathematics and Computer Science. Thank you so much Math Kangaroo for igniting my passion and providing me with this fantastic experience!



Arushi Mantri
Portland, Oregon

For me, Math Kangaroo was the beginning of a life-long love and excitement for mathematics, from participating in contests to taking classes at summer programs to conducting original research.

I took my first Math Kangaroo exam when I was in 3rd grade, and every year since then, solving the intriguing, puzzle-like questions has been an experience I've looked forward to. I'm grateful that Math Kangaroo helped me discover my love for problem solving at a young age, since that early experience inspired me to start exploring the vast world of mathematics more deeply.

Indeed, from middle school through high school I participated and performed well in Mathcounts, AMCs and AIME, ARML, USAMTS, and many other math contests. I also attended summer math camps SIMUW ('19) and Canada/USA Mathcamp ('20, '21). Last year, I worked on a math research project through the highly selective MIT PRIMES program.

As I grew mathematically each year, so did the Math Kangaroo contests, challenging me to think in new ways and apply the concepts I had recently learned. Something that always stood out to me about Math Kangaroo problems was that, even at the higher levels, they were ultimately about finding patterns and understanding the properties of mathematical objects, a skill that is crucial in any field of advanced mathematics.

I've really enjoyed studying advanced math throughout high school, so I am extremely excited to attend the Massachusetts Institute of Technology for the next four years, where I will be majoring in mathematics.



Tony Tzolov
State College, Pennsylvania

I remember the first year I participated in Math Kangaroo in first grade. With no center near me, I traveled 3 hours in one direction to take the contest. While I don't remember the exact problems on the pages, I remember that the problems were different than the ones I had experienced before, and they were actually enjoyable.

The next year a center opened up in my town, and I was excited that I can partake in the contest without such a long drive. In middle school, I participated in other math competitions, but every year Math Kangaroo does not fail to remain unique.

Its inclusion of geometry, logical thinking, and 3D visualization problems is nice to see since most other math competitions are afraid to touch these subjects. Math Kangaroo is a competition that spurs creative thinking, rather than being quick at calculations or memorizing specific formulas.

Math Kangaroo had a positive impact on my appreciation of math and taking the contest every year reinforced my interest in math. The memory of Math Kangaroo will always stay with me as my first real experience with math.

This fall, I will be attending the University of Pennsylvania to study mathematics and material science.



Chirag Verma
Sammamish, Washington

My first exposure to math contests and problem-solving was in first grade when I participated in Math Kangaroo. The problems are different than all the other math contests and do not require you to know any tricks or formulas. They require logical thinking, and it was one of the few contests that had spatial and visual questions.

I enjoyed participating in Math Kangaroo over the years and loved the support and encouragement I received through the awards and gifts.

Feedback MehtA+ AI in visual Arts Camp

My son Derek Xu happened to be sick during that week, so he was not able to attend the scheduled Zoom meetings. He did watch the class recordings afterwards and has learned a lot on this interesting topic. The instructor Miss Mehta did an amazing job explaining the concepts and gave full attention to her students. The class was informative, fun and engaging. Miss Mehta also made all the class materials and recordings available on Google classroom, so Derek was able to access them easily. Overall, it is an excellent program!

Thanks again for the opportunity to learn about AI in Visual Arts!

Li (Parent of Derek Xu)

Below is a list of all students awarded with camps:

Student Name	Level	Award	State	City
Arianna Cao	11	Wolfram Bootcamp	CA	San Jose
Maya Viswanathan	10	Wolfram Bootcamp	IL	Champaign
Aaron Hu	10	MehtA+ AI/Machine Learning Research Bootcamp	FL	Tallahassee
Shreyas Singh	10	MehtA+ AI/Machine Learning Research Bootcamp	IL	Champaign
Aditya Gupta	10	MehtA+ AI in Visual Arts Camp	IL	Rolling Meadows
David Wei	10	MehtA+ AI in Visual Arts Camp	VA	Falls Church
Derek Xu	10	MehtA+ AI in Visual Arts Camp	NY	Dobbs Ferry
Elizabeth Levinshteyn	9	MehtA+ AI in Visual Arts Camp	MN	Blaine
Evan Zhang	10	MehtA+ AI in Visual Arts Camp	MA	Dover
Jakub Pienkowski	10	MehtA+ AI in Visual Arts Camp	NY	Greenlawn
Katherine Nogin	10	MehtA+ AI in Visual Arts Camp	CA	Fresno
Michael Liu	10	MehtA+ AI in Visual Arts Camp	CA	Camarillo
Sam Rozansky	10	MehtA+ AI in Visual Arts Camp	NC	Raleigh
Shreev Goyal	10	MehtA+ AI in Visual Arts Camp	TX	Austin



Magdalena Teodorowicz,
Chief Design Officer, Editor of the Bulletin

Math Kangaroo 2023 Poster Contest

As always, the annual Math Kangaroo USA Poster Contest was announced in May and was packed with amazing proposals. We loved them all and indeed had a difficult time choosing just one as there were so many exceptionally good works with a beautiful message. The posters this year were thoughtful, mathematical, and at times funny. We loved them all, from the ones made with color pencils by younger students to the electronic ones made by older students and adults. We received 30 posters, 29 from students in K-12 and one from a college student.

A panel of judges narrowed down the entries, evaluated them and made their final decision. The award for **the Best Poster** went to **Videsha Das**, grade 5 from **San Jose, California**.



Videsha creating this unique, thoughtful, and interesting poster. You are so right when you say that math is the reason behind human progress in science, engineering, and technology. Your poster indeed depicts math as an important part of mind development for the students of all ages. She received a \$200.00 Amazon gift card and The Best Poster Certificate.



Videsha Das,
Grade 5, San Jose, CA

This is what she says about herself:

"My name is Videsha Das and I'm in 5th grade and I'm 11 years old. I live in California. My hobbies are drawing, reading, baking, writing, and dancing."

"My poster depicts that math is the reason we went to space. People who loved and learnt math created space shuttles that took us to the moon, and they still are creating robots and satellites that will take us beyond."

Congratulations to Videsha for her winning entry and a special thank you to the following participants:

Participant Name	Grade	State	City	Participant Name	Grade	State	City
Bansri Modi	K	AZ	Oro Valley	Aarush Mane	5	CA	Oak Park
Nash Cardon	1	UT	Logan	Elaina Wang	5	VA	McLean
Arya Nawathe	3	CA	Los Angeles	Malinda Zhu	5	MD	Potomac
Barbara Gomes	3	CA	Foster City	Marilyn Zhang	5	MD	Boyds
Jinyi Lu	3	MA	Wayland	Shaurya Gupta	5	CA	Foster City
Meghan Hughes	3	MA	West Roxbury	Zachariah Short	5	MA	Worcester
Aishwarya Rao	4	AZ	Tucson	Aditi Ranjan	7	CA	Cupertino
Charlotte Alvarez	4	CA	Poway	Aidan Ng	7	IL	Naperville
Ian Soares	4	CA	Foster City	Saki Tsukahara	7	MA	Brookline
Madeleine Alvarez	4	CA	Poway	Grace Zhang	8	MA	Natick
Terry Zhang	4	MD	Boyds	Sophie Xie	8	NY	Scarsdale
Trina Calhoun	4	CA	Sunnyvale	Sahiti Dasari	9	GA	Cumming
Tyson Zhang	4	MD	Boyds	JinaChoi	11	IL	Chicago
Varni Modi	4	AZ	Oro Valley	Yujen Shu	Adult	PA	Lancaster

Please see their creative work [here](#)

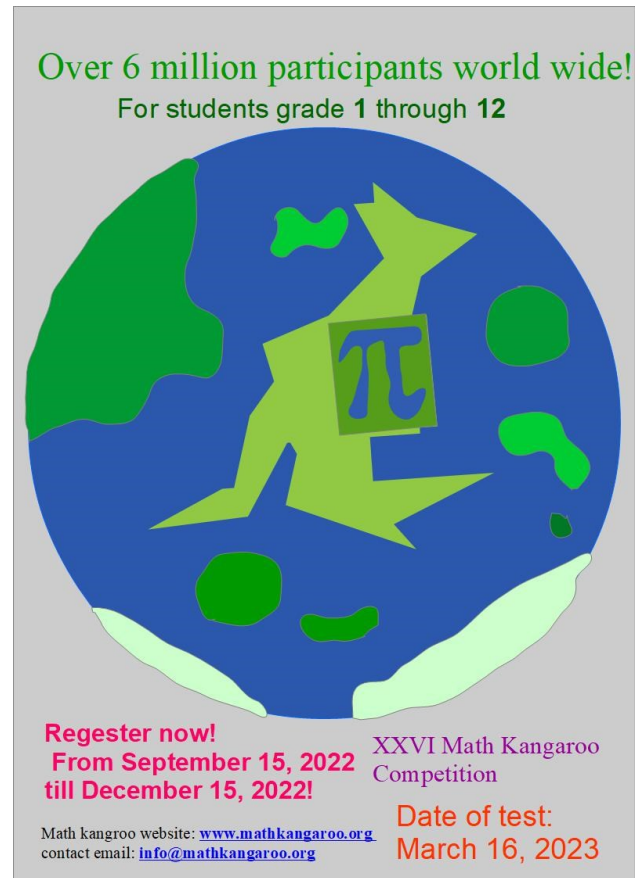
Math Kangaroo 2023 T-shirt Design

Math Kangaroo decided to use Lentaro Tone green kangaroo within the Earth on all Math Kangaroo t-shirts for students in 2023. We are so glad he thought of an idea to make kangaroo in this original and sophisticated way. We are sure he had fun making this creative poster.

Lentaro received a \$100.00 Amazon gift card and The Best Math Kangaroo T-shirt Design Certificate.



Lentaro Tone,
Grade 5, Las Vegas, NV



This is what he says about himself:

"My name is Lentaro Tone, and I am 11 years old. I go to Coral Academy of Science Las Vegas in Nevada, and I will be in sixth grade next school year.

I started Math Kangaroo when I was in third grade. I think that math is fun and enjoyable. My hobbies are playing games, reading mangas, drawing, and computer science.

I had a very fun time creating the Math Kangaroo Poster. My idea is a kangaroo island with a pi-shaped lake on the Earth. I chose this topic of the Earth because I wanted more people all around the world to join Math Kangaroo. I cannot wait to wear and see other people wear T-shirts that I designed."

Congratulation to Lentaro for great design!

[Register your child as soon as September 15.](#)

[Donate any amount any time!](#)

[Enroll your school by December 1. No cost for schools. Parents register, and they pay online.](#)



We would like to thank our sponsors.



Please contact us at info@mathkangaroo.org if you or your organization are interested in supporting our endeavor.



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