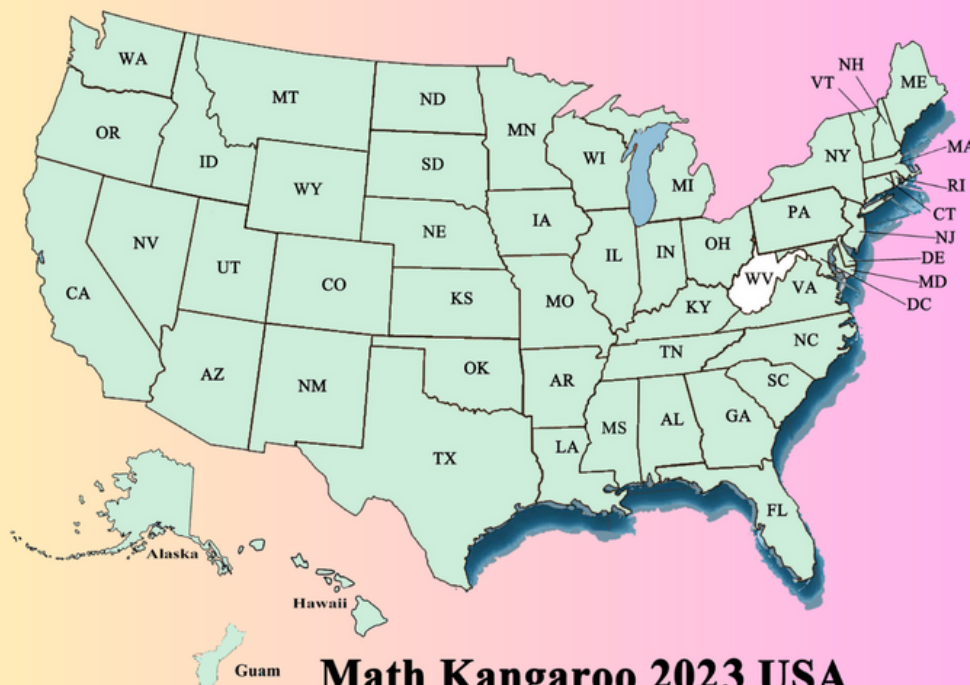


FALL 2023

# MATH KANGAROO BULLETIN

VOLUME XIV, ISSUE 1



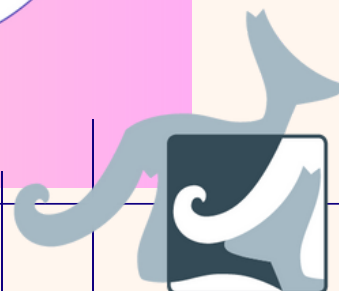
**Math Kangaroo 2023 USA**

□ 49 States + Guam

**OUR MISSION**  
**TO HELP STUDENTS**  
**LOVE MATH**  
**NATIONWIDE**



**[WWW.MATHKANGAROO.ORG](http://WWW.MATHKANGAROO.ORG)**



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Helping kids  
love math  
for over 25 years





**Joanna Matthiesen,  
Chief Executive Officer**


**Hello and welcome to our new  
and exciting Math Kangaroo  
2024 season!**

I love reading the notes from our students that we frequently receive over the academic year. Getting to know what parents and students value in our program is my favorite thing to reflect on. We often ask our new students what was their favorite thing about Math Kangaroo. Over and over, they express that they appreciate the challenging and creative questions. Here are a few examples: *“Math kangaroo helps me tremendously to think and*

## FROM THE PRESIDENT’S DESK

*exercise my brain,” and, “math kangaroo gives me the opportunity to solve problems that require logical thinking and are fun at the same time.” Another student comments, “I would like Math Kangaroo to be at my school as many students in my school excel in math and Math Kangaroo will be an amazing opportunity for them.”*

I am delighted to be a part of our Math Kangaroo community and to get to know our students through their testimonies and simple notes or video clips they send us. We strive to make a significant impact on teachers and students by giving them valuable resources they need to succeed. It has been proven that the activities in STEM extracurricular programs for our youth lead to more excellent educational aptitude and more prominent contributors to society as working adults.



We are encouraged by the prospect of working with more new schools throughout the new academic year. I am grateful to all the teachers and the parents who see the value of hosting our event year after year and celebrate the successes of their students. We make hosting easy by making competition logistics clear and straightforward. Additionally, we share with our teachers our prep material to make the teaching and learning experience smooth and enjoyable.

We are constantly exploring and developing ways to improve the Math Kangaroo Experience. Our team worked diligently to come up with new ideas to serve our mission on many different educational levels. We are proud of all we accomplished last year:

- Improved our website with a student-friendly interface.
- Improved online test proctoring to be available for online centers.
- Published two new books for grades 1 and 2.
- Designed and expanded Math Kangaroo lesson plans for grades 1 to 8 to teach our students techniques and strategies of solving word and logic problems.
- Started Math Kangaroo online classes for middle school students.
- Facilitated free monthly webinars with the Museum of Mathematics.
- Facilitated free bi-monthly workshops with Daily Challenge and prof. Po-Shen.
- Created more volunteering opportunities for our high school students and alumni.



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We view our students and teachers as family and always make it a priority to continue nurturing and growing our community. Together, we will make 2023/24 our best year yet. In the coming year, we plan to:

- Make Math Kangaroo faculty and proctoring site more friendly.
- Offer professional development events for our faculty.
- Polish, finalize, and publish a book for grades 7 and 8.
- Design Math Kangaroo lesson plans for grades 7 and 8.
- Design Math Kangaroo lesson plans for grades 9 and 10.
- Create Math Kangaroo classes and webinars for grades 9 and 10.
- Seek more partnerships with educational like-minded organizations.
- Sponsor Kangaroo related AI and other fast growing youth organizations.

We anticipate seeing all Math Kangaroo students these upcoming months during our workshops or classes. We look forward to learning what they practice at home through our many resources.

We hope all students have a smooth transition back to school. I sincerely thank all of you for the support of Math Kangaroo and your involvement in the STEM community. I believe that the more schools and students we serve, the more impactful we can be.

Yours,



President of Math Kangaroo USA



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# 2023 MATH KANGAROO ACCOMPLISHMENTS

## **Kasia Nalaskowska, Chief Information Officer**

2023 was a great year for Math Kangaroo and we were able to accomplish a lot.

For the first time we offered proctored online centers, where students who could not participate in-person were able to take their test while being monitored on screen. The number of centers increased by over 200, up to 624, and the number of participants increased almost by 6,000, up to 36,421. We worked hard to offer new study material and add new tools facilitating the process of students' registration and test taking. The feedback from MK 2023 proctors was very positive. Here is what they have mentioned about Math Kangaroo competition and participants: great experience, awesome contest, it went smoothly; students were engaged and focused; students worked hard; they enjoyed the exam.

We really appreciate all the continuing support of our managers, state directors, and faculty. They are a vital part of Math Kangaroo and crucial in our mission to bring students a better understanding of math.

We also value students who are eager to learn math, and we are very happy to provide them with an opportunity to better understand math by solving creative Math Kangaroo problems.

I am very excited for the upcoming MK2024 test and welcome all students (those who will participate for the first time and all returning students) who would like to try their strength in the mathematical adventure of Math Kangaroo.

## BRING THE MATH KANGAROO COMPETITION TO YOUR SCHOOL!

Math Kangaroo has helped over 300,000 students around the country improve their math and logic skills and gain confidence in the classroom!

Don't delay! Registration to bring Math Kangaroo to your school is open now until December 1.

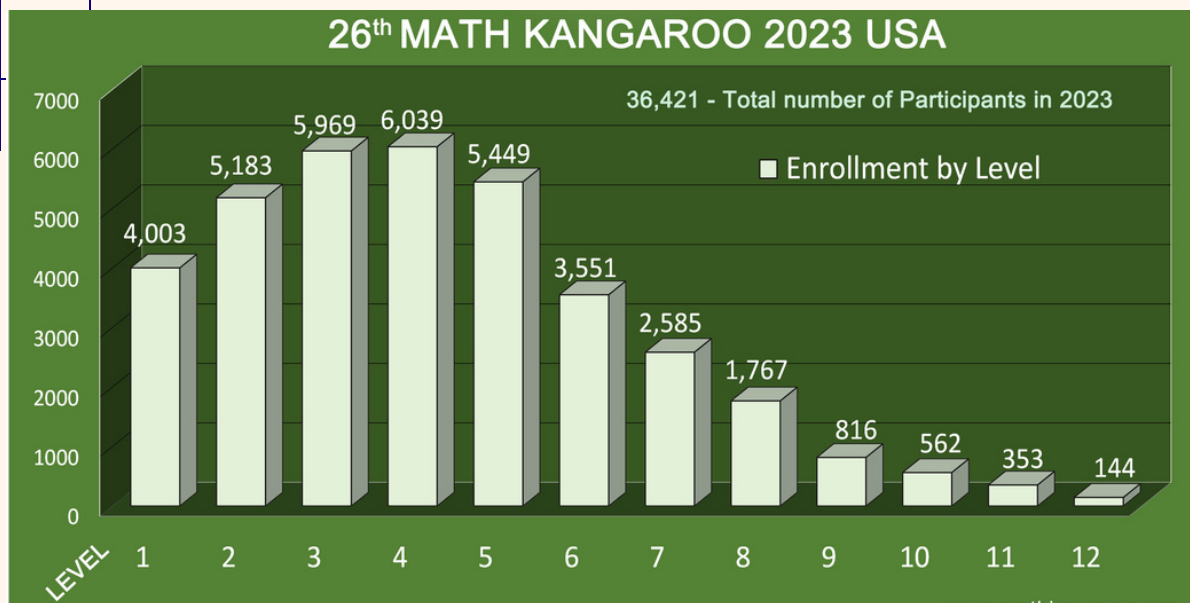


MATHKANGAROO.ORG

ENGAGING QUESTIONS

IMPROVED CONFIDENCE

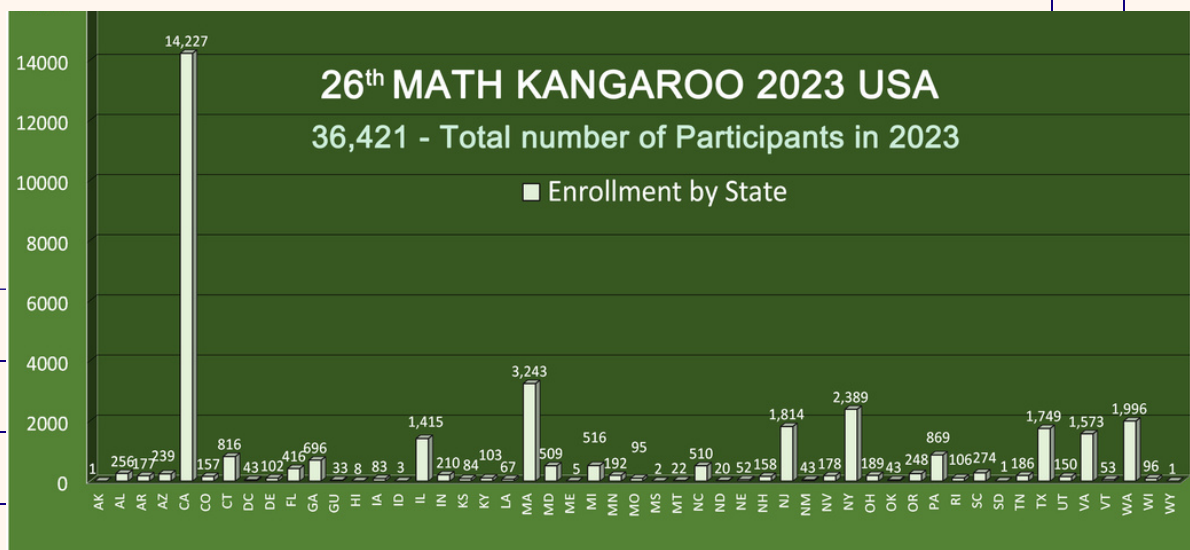
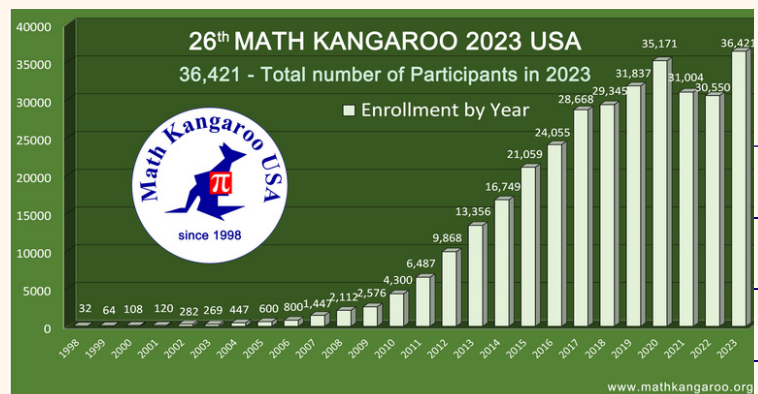
FOR STUDENTS GRADES 1-12



## STATISTICS

This year **36,421** participants were registered for the Math Kangaroo Olympiad in the USA.

The competition took place in **624** centers in **49** states and territories. ( you can find more statistics [here](#) )





**Izabela Szpiech,  
Chief Financial Officer**



## **YOUR SUPPORT MATTERS**

After three years of immense uncertainty, Math Kangaroo got back to in-person testing seamlessly and almost in full swing, just as before the year 2020. The 2023 Math Kangaroo USA competition brought an impressive number of participants and winners at each level. This is only a proof that there are no borders for exploration and for the development of knowledge and curiosity. 36 thousand students from the USA decided to focus on learning math through our program and the results were astounding.

The most important thing about MK competition is that children participate not only to be a winner, but they also find our questions

inspiring, intriguing and a great way to implement the method of solving MK questions in their scholarly journey. For many, participating in MK for the first time was a turning point which steered them to look at mathematics in a different, refreshing way that inspired them to study math, science, or technology. Each year there is a growing number of HS graduates that also happen to be MK graduates as they were committed to our competition throughout their school years. Those whose results placed them in first positions received college grants of: \$1000 and special recognition with monetary awards in the value of \$800, \$700.00, \$500.00, and \$250.00. Here are the recipients of the grants and special recognitions:

## math kangaroo graduated students awards

Student Name	Award	Name of Award
Arianna Cao	\$1,000	College grant
Sai Konkimalla	\$1,000	College grant
Suyash Pandit	\$1,000	College grant
Alan Vladimiroff	\$1,000	College grant
Nikhil Mudumbi	\$800	special recognition
Kavan Doctor	\$700	special recognition
Kaden Nguyen	\$500	special recognition
Sharvaa Selvan	\$500	special recognition
Arul Kolla	\$500	special recognition
Alan Kappler	\$250	special recognition
Noah Shi	\$250	special recognition

Please take a moment and read their reflections on the MK competition presented in this bulletin.

Each year, we cannot express more of our gratitude to parents who introduced their children to our program and teachers who decided to do the same for their students. **There would not be success without YOU.**

MK is a Non-For-Profit 501©3 organization that mainly relies on registration payments and monetary support from private donors and corporate giving programs. If you find our program as an important element in developing a variety of learning skills, please kindly consider donating any amount by using the following link, [DONATE](#).

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Many companies participate in donation programs where every dollar of employees' contribution for chosen NFP organization is matched by the company. We will be happy if you pick Math Kangaroo USA, NFP as a receiver of matching contributions if your corporation offers such a program.

All donations are tax exempt, and we will be happy to issue personalized certificates for your tax return purpose.

Thanks to all the sources of our funds, every year we can accommodate and support students from Title 1 schools with 50% reduced registration fees and individual families that cannot afford the full registration payment. The funds are a great base to implement additional programs such as MK classes, webinars, to give attractive awards for the 20 best students at each level nationally and for the three best results in each state at each level, and gifts for every participant. This year we spent on gifts and awards over \$400,000 in total.

Sharing is caring and this year we were able to extend our support to some elementary and middle school mathematics competitions and many state and local math festivals by sponsoring prizes for winners or giveaways for participants. Additionally, Math Kangaroo is an official sponsor of the best paper award at VLAR 2023, in the amount of \$1000. We look forward to reading the original and high-quality research papers in the topics related to vision-and-language algorithmic reasoning. Now we can proudly say, our Math Kangaroo questions are being used to test if AI can solve complex problems faster than humans. More info can be found here: <https://wvlar.github.io/iccv23/>.

**Congratulations to all 2023 participants and their families. Thank you, all donors, for your generous and continued support.**



**Svetlana Savova**  
**Chief Academic Officer**

## **MATH KANGAROO CLASSES, WEBINARS, AND COACHING: A COMPREHENSIVE APPROACH TO COMPETITION PREPARATION**

Math Kangaroo challenges students through a unique blend of problems and the preparation for such competition requires more than just conventional learning. We are introducing the Math Kangaroo Classes, Webinars, and Coaching sessions.

We commenced our pilot project of Math Kangaroo Classes two year ago, initially catered to the younger students, in grades 1-4. The positive response from both students and parents led to a subsequent expansion,

now encompassing grades 1 - 8, each consisting in two sets of ten lessons. This progression reflects our commitment to providing a challenging and fun learning environment for the participants. The classes dive deep into the problem-solving strategies using past Math Kangaroo problems as core material. The classes are designed for up to 12 students. They are not recorded, but after each session, the instructor sends the pdf version of the material taught in class. The instructors work together with teaching assistants,




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who are high-school students and among the top Math Kangaroo winners.

The classes are interactive, and the students are encouraged to think out of the box. They actively engage in discussions, exploring diverse solution paths. These classes do more than just teach; they enable students to develop a multi-dimensional approach to problem-solving and provide a stimulating environment, nurturing the critical thinking, ensuring that students aren't just finding answers but understanding the underlying principles. Whether it's through strategies like drawing a picture, finding patterns, working backwards, 3D visualization, employing logic, or delving into algebraic thinking, geometry, and combinatorics for older students, the classes offer an expansive toolkit. By engaging with these varied strategies, students not only gear up for the competition but also enrich their analytical thinking skills.

To reinforce these concepts, tailored homework problems accompany each lesson. For those eager to challenge themselves further, build persistence and stamina, and gain more confidence, a full Math Kangaroo exam is recommended as optional homework. This rigorous approach, coupled with consistent practice, prepares students for the actual competition, both mentally and academically.

Levels 3-8 introduce an added layer of creativity with the Genius Hour Project. Here, the students transition from being problem solvers to problem creators, designing their own Math Kangaroo-styled questions. This exercise not only solidifies their understanding but also fosters creativity and innovation. The last session in the course is dedicated to Genius Hour showcase and some of the best problems are published on the Math Kangaroo website.



This year, we are also adding an hour each week for additional support, facilitated by our wonderful teaching assistants. The students can join the sessions as needed with any questions they may have about the homework or classwork.

But that's not all. Understanding the diverse learning needs of students, Math Kangaroo has also introduced webinars. Covering similar content, these are designed for larger student groups, making it both affordable and accessible. While they do not offer the same interaction with the instructor and peers, they teach the same problem-solving strategies. In addition, the webinars are recorded and can be accessed later if a student is absent.

For students seeking a more personalized touch, Math Kangaroo provides individual coaching. Tailored to address unique student needs and specific areas of focus, this one-on-one format ensures that every student finds their own pace and style of learning, leveraging the same invaluable strategies and topics offered in classes and webinars.

By introducing these preparatory initiatives, Math Kangaroo reiterates its belief in popularizing math. We are committed to guide, support, and inspire the future competition participants, helping students understand, enjoy, and celebrate math.

In the span of the last two years, the classes, webinars, and coaching sessions have gained popularity. The registration for the fall is open, and we invite every math enthusiast to be part of this exciting journey.

# REFLECTIONS ABOUT MATH KANGAROO COMPETITION



**Arianna Cao**

San Jose, CA

The lighthearted nature of Math Kangaroo is what initially drew me in, but the thoughtful execution and puzzle-like nature is what enticed me to come back every year. And of course the mascot is adorable! I have to also mention the amazing prizes and opportunities that Math Kangaroo has also awarded me. From eagerly awaiting cool trinkets as an elementary school student to now receiving this college grant, I have always been grateful for the support and recognition that this competition has given me. I mean, who would have known I would have the opportunity to meet Stephen Wolfram because of a few puzzles?

**Thank you again for making all this possible and thank you so much for everything!**

*Arianna will be studying computer science at Stanford in the fall.*

My first math competition experience was with Math Kangaroo, when I was in the second grade. At the time, the only experience I had with math was through school, and after my math teacher told me about the competition, I thought I would give it a try. I was immediately hooked. I loved thinking about and trying to solve the challenging puzzles, and I wanted to do more. This is what started me on my mathematics journey.

This first experience with Math Kangaroo opened many doors for me in middle school and high school to continue exploring math. From math competitions like the AMC competitions and USAMO to summer programs like the Stanford University Math Camp, I had many opportunities to continue exploring deeper aspects of mathematics I had never even thought about before. All of the drive and passion I had for mathematics up to this point originated from that first spark I had from participating in the Math Kangaroo competition since elementary school.



## Sai Konkimalla

Oro Valley, AZ

After my first Math Kangaroo experience, I continued taking part in it, excited every year to solve and puzzle over a new set of math problems. Over the years, Math Kangaroo has always pushed me to stay curious and never be afraid to explore and make mistakes.

**The journey I had so far would not be possible without that first experience with Math Kangaroo in second grade, and for that, I am very grateful.**

*Next fall, Sai is planning to study mathematics and computer science at Stanford University.*



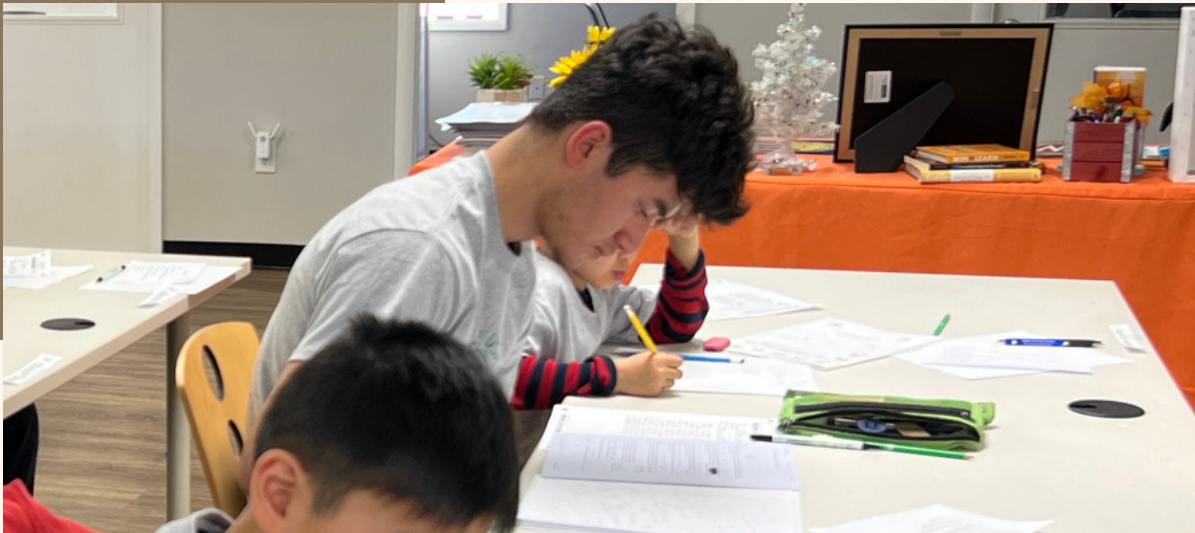


**Alan Vladimiroff**  
McLean, VA

Math Kangaroo was my first math competition that I took in Kindergarten in 2011. I have competed every year since then, taking my 13th and final test this year in 2023.

**Math Kangaroo helped spark my passion for math;** it taught me to think outside the box, and apply what I knew in creative ways, a skill of the utmost importance in life. **I am confident that Math Kangaroo will continue to demonstrate the beauties of math to new generations of students, and inspire them just as it inspired me.**

*In the fall Alan will attend MIT, where he will major in math.*





## Nikhil Mudumbi

Mahwah, NJ

I've been participating in Math Kangaroo since I was in 1st grade, and I have taken the contest every year since.

**I really love Math Kangaroo, as it's always been a bit different from other competitions or anything else that I do. It's never stressful and gives me a chance to showcase what math is really about - creativity.**

*Nikhil will be attending Columbia University, majoring in Math and Computer Science.*



## Suyash Pandit

Portland, OR

I have participated in Math Kangaroo every year since first grade. Though I took part in many different competitions, **Math Kangaroo presented several unique visual challenges.**

I am also the leader of his local math competitions club in Oregon and have been an active volunteer for the North South Foundation, an organization that works to raise scholarships for underprivileged youth in India.

*After graduation, Suyash will attend the University of Washington where he plans to major in applied mathematics.*

I have taken Math Kangaroo every year since 1st grade. I became interested in Math Kangaroo early on because the problems don't require too much prior knowledge or study. The skills needed to figure out the puzzles and logic of the problems are the most raw form of problem-solving.

Math Kangaroo served as my introduction to problem-solving and a stepping stone to math competitions. However, in doing Math Kangaroo problems, I have more "epiphany moments" than problems of any other competition. One minute I have no idea how to do the problem and the next, the solution suddenly becomes clear. In this way, Math Kangaroo has rewarded and encouraged my determination in solving challenging problems--**I learned to enjoy the process of struggle in math.**

**I have massively benefitted from taking Math Kangaroo tests for over half my life.**



**Kaden Nguyen**

**Pleasanton, CA,**

**Over years exploring higher levels of math, I've found that having a strong foundation of problem-solving skills makes picking up new concepts much faster.**

I've taken Math Kangaroo through Middle and High School to continue to improve my logical reasoning abilities and also to just have fun doing new problems.

*Kaden will attend the Stanford University,  
Major in Math and Computer Science.*





## Sharvaa Selvan

Weston, FL

As an avid participant in Math Kangaroo contests since 3rd grade, I'm proud to say they have not only tested my mathematical abilities, but also inspired me to explore mathematics in unique and innovative ways.

These contests presented me with challenges and puzzles which pushed the boundaries of my thinking in a way that no other contest has been able to.

I would like to thank the Math Kangaroo Team for being so influential in my decision to attend the Massachusetts Institute of Technology, majoring in Mathematics with Computer Science.

*In the fall he will attend MIT, where Sharvaa will major in math with computer science.*





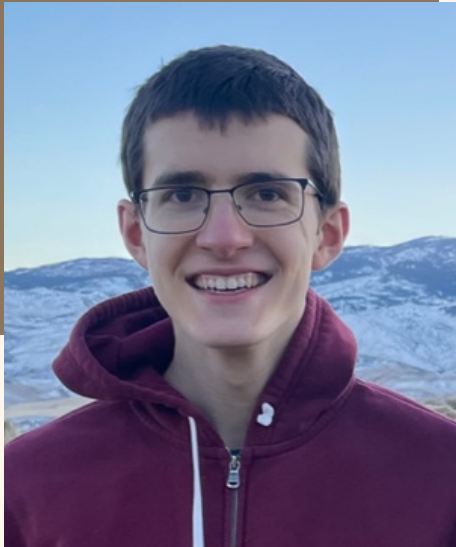


**Noah Shi**  
Sammamish, WA

I began participating in the Math Kangaroo competition in second grade and have continued every year for the past decade. As a senior in high school, this was my final year participating in the competition.

**The problems in Math Kangaroo are pretty unique** - they still manage to incorporate key aspects of mathematics such as logical reasoning and critical thinking without an overreliance on geometric theorems and such like other competitions do in the higher grade levels. As a result, I find these questions more interesting and fun to solve. However, this doesn't make the competition easy – I still find myself spending some time on the last five questions or so. Overall, **I believe that this competition has definitely helped build up my problem-solving skills, allowing me to succeed in hard classes such as modern physics.** I hope to continue my connection with Math Kangaroo through other means such as helping out with Math Kangaroo courses and webinars.

*In the fall, Noah will be attending the University of Washington and studying computer science.*



**Alan Kappler**  
Hillsboro, OR

When I first took Math Kangaroo, there wasn't really anything to compare to the kinds of math it contained. Most of the math I'd been exposed to at that point was on the level of arithmetic, but the logic puzzle-type problems in Math Kangaroo were really interesting and had me looking forward to the competition each year.

**Math Kangaroo also encouraged me to study a variety of interesting fields in mathematics, which has involved me in a mathematical community that's really fun to be in.**

More recently, I've really enjoyed the opportunities to help teach in Math Kangaroo seminars and classes; it's been exciting to interact with elementary students and help them along in their mathematical journeys!

*Alan is planning to major in math at Harvey Mudd College in California.*

# INTERNATIONAL SUMMER CAMP MEMORIES



**Elena Baskakova**

Newton, MA

While the weather was unpredictable, we made the most of it, playing games and going into town to explore Polish crafts and foods. The staff was extremely adaptable and dedicated to making sure we had a great time. Our team chaperones were remarkably kind and willing to go on whatever adventures we proposed.

**The Math Kangaroo camp in Zakopane gives a math camp experience unlike any other. Through its focus on unique, logically-oriented math while also keeping us active, Math Kangaroo created an unforgettable trip. Our team was from all over the country, but we easily found common ground and had a lot of fun exploring the Tatra mountains, visiting the salt mines, and relaxing in the aquapark together.**

Throughout the camp, the Math Kangaroo team brought together a multicultural community with chess, ping pong, hikes, entertainment, and a common love for logic, puzzles, and math. I enjoyed interacting with students from other countries and learning about their lives through conversation, but also lower key interactions like playing games.

**I am very thankful to Math Kangaroo for putting this camp together, and for everything they do for participants. Math Kangaroo shows incredible care in ensuring a wonderful experience for all.**



## Michael Lu

Setauket, NY

**The Math Kangaroo Camp was a great experience.**

I met amazing people from all around the US and the world. The excursion to the salt mine was fun, and we went on hikes where we got great views of the mountains and areas around us though it obviously would have been better if the weather was good.

**US Team during the funny mathematics - math workshop**

Planning for the talent show was also an interesting experience, and the activities were fun to participate in.

The math lectures were also very interesting and in areas I wasn't completely familiar with so I learned a lot from them. The competitions also had thought-provoking questions and I enjoyed working on them every day.

**I'd like to thank Math Kangaroo for this opportunity and our chaperones Agata and Andre. Shoutout to the other students from Team USA for making the experience enjoyable and memorable.**







## Maya Viswanathan

Champaign, IL

**Thank you so much to math kangaroo for inviting me to attend the international math camp and offering me this opportunity. I really enjoyed every aspect of it.**

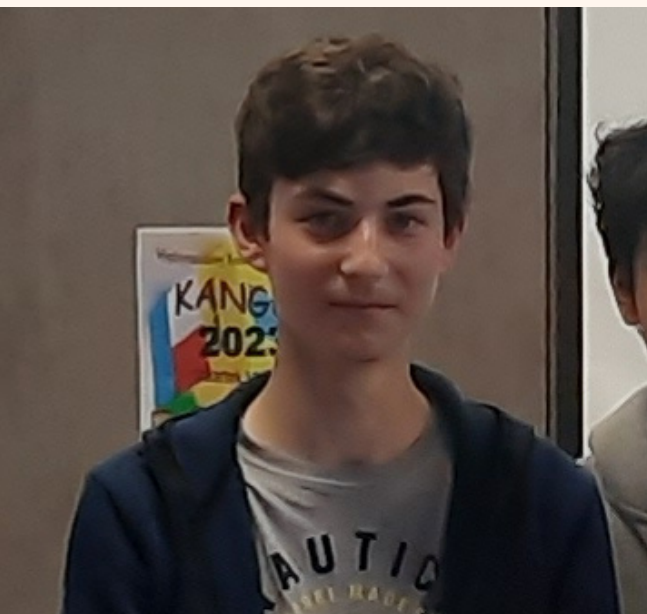
The day was packed with a variety of different cool activities. Beyond the interesting math lessons and problems, it was also super cool to get to travel to Poland and I loved the beautiful views. The town was really pretty and hiking in the mountains was breathtaking. We saw art and architecture and it was really interesting to learn about some of the traditions of the area.

I also had a lot of fun playing games, going to the water park, and spending time with the other campers. We got to meet the groups from other countries (Poland, Lithuania, Ukraine, and Turkey) and it was fun to get to know them and talk to them.



**All participants of the camp with the faculty, organizers and chaperons.**





## Daniel Gilman

Edgewater, NJ

**Thank you for the opportunity to attend the Math Kangaroo Summer Camp in Zakopane.**

Between the hikes, lectures, and playing mafia late into the night, the camp was an unforgettable experience. Apart from the US participants, I met many different people from all over Europe, and enjoyed playing ping pong and cards with them. I also really liked that the math at the camp focused on many different fields, meaning that everyone learned something new that they found interesting.

**Overall, the camp had a great blend between mathematical and social events, and I am very glad that I was able to attend.**



A group of camp participants during a math lecture.



## Amudhan Gurumoorthy

Irvine, CA

The math at the camp itself was also very interesting. I especially enjoyed the lectures on inversions, as it was a topic that I wasn't very familiar with. The problem of the day and the math competition had some pretty simple questions, but also had a few that posed a good challenge, making it somewhat hard but not too difficult.

**This international math camp was an incredible, unique, and unforgettable experience. I learned and tried so many new things that I never thought I would be able to do.** For example, when I was going up for the first hike, I thought I would never make it to the top, and I often thought about quitting. However, I kept pushing forward, and I was able to make it all the way up and see the beautiful view of Zakopane.

My favorite part of the camp was definitely the games we were able to play. While being in the dorm room, I played many card games with many different math students, and I enjoyed almost all of them. The sports competitions were very fun, too. I was able to enjoy the table tennis tournament and cheer my peers on while I played hard games of chess with people from all different cultures. Even though I lost a lot of games, I still learned a lot about how to improve my game, and I had a lot of fun!

**In conclusion, this trip was a really memorable experience, and I am very glad that I took the opportunity to join this camp!**



## David Zhang

San Ramon, CA

Admittedly, the prospect of visiting a foreign nation with a team of mostly unfamiliar US students was initially a bit intimidating. But in hindsight, the invitation was one of the best things I could've hoped for. Over the ten days we spent together, I connected strongly with each of the other US students, and collectively we made some awesome memories in Poland.

In the mornings, we'd go for hikes in the scenic Polish mountains, stopping by at historical sites and tourist destinations along the way. In the afternoons, we'd have lectures, followed by hours of free time in the evenings that we typically filled with an overdose of social deduction games. We also had a fascinating full-day excursion to a salt mine in Wieliczka as well as a trip across the street to the Termy Zakopiańskie waterpark.

From all angles, our trip to Zakopane was a resounding success. I'm extremely grateful to the other students and the chaperones for filling each day at camp with interesting conversations, new perspectives, and effortless fun. The memory of this camp is one that I will cherish forever.

**I'll never forget my experience at the Math Kangaroo Camp in Zakopane. The trip was a whirlwind of math lectures, cultures, hiking/sightseeing, and other activities. Together, the 10 of us from the USA and the approximately 50 students from European countries made the camp our home.**





## Shreyas Singhi

Champaign, IL

**The most remarkable aspect of the camp at Zakopane was the sheer number of new things that I was introduced to.**

It seems like card games are something of a tradition among the USA participants, and this year was no different. Starting right at the airport in Chicago and continuing to the very end, I got to learn many new and entertaining card games, often playing them late into the night with our group.

The hiking experience was also unlike anywhere I have been before, with scenic green slopes and mountains so high that they often broke into the clouds.

The mathematical lectures (especially the ones on inversion) were quite engaging and unique in their approaches, and the Problem of the Day series provided some refreshing food for thought in our free time.

In the evenings, I enjoyed trying my luck against challenging opponents at the ping pong table, and starting a dubious acting career through our production of "Snow White in Detroit."

**In summary, I would greatly recommend this camp to any math enthusiast wishing to try something new.**



## David Wei

Falls Church, VA

Hiking in the mountains, visiting historic sites like the salt mine, enjoying the beautiful Poland scenery, engaging in math lectures, and participating in unique math competitions are some of my favorite memories of the camp.

**Thank you so much for organizing the camp. My Math Kangaroo trip to Poland this summer was an unforgettable experience for me.**

I am grateful that I had the wonderful opportunity to meet so many new people from around the world and play sports and games, all the while sharing the common language of mathematics. The camp environment was so welcoming that I felt at home — many thanks to the chaperones and Math Kangaroo organizers who planned this incredible event.



Participants of the camp:  
(from the left) Maya Viswanathan,  
Michael Lu, David Wei, Daniel Gilman,  
Sebastian Prasanna, Shreyas Singh,  
Amudhan Gurumoorthy, Zaeed Shah,  
David Zhang, Elena Baskakova



# FEEDBACK FROM WOLFRAM CAMPS



**Mia Zhao**

**Westborough, MA**

I learned so much at the Wolfram summer camp!

The camp was very enjoyable and I got to learn a lot about the Wolfram coding language. There were a variety of coding projects and lessons I got to do throughout my week attending the camp. I am so thankful Math Kangaroo provided me with this awesome opportunity.



**Joyce Huang**

**Redmond, WA**

WSRP was so much fun! Thank you so much to Math Kangaroo for giving me the opportunity to go, I was able to meet so many cool new people and have a blast working on a cool project!



**Magdalena Teodorowicz,  
Chief Design Officer,  
Editor of the Bulletin**



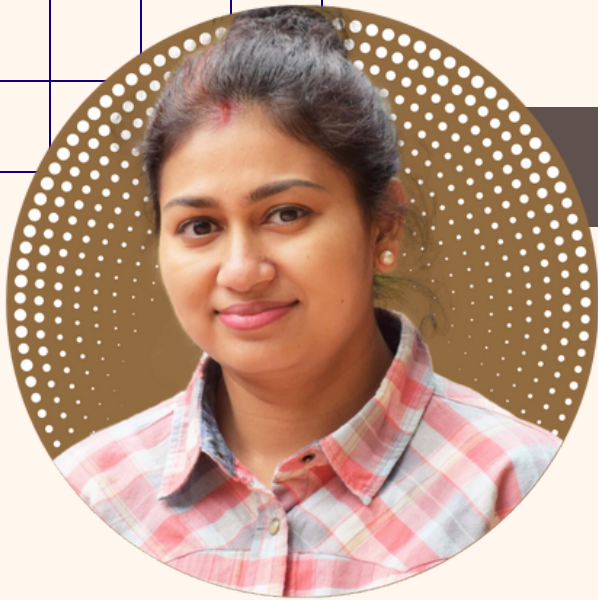
# MATH KANGAROO 2024 POSTER CONTEST

As always, the annual Math Kangaroo USA Poster Contest was announced in May and was packed with amazing proposals.

The 4-person jury: Joanna Matthiesen (CEO), Izabela Szpiech (CFO), Kasia Nalaskowska (CIO) and I, Magdalena Teodorowicz (CDO) loved them all and indeed had a difficult time choosing just one poster as there were so many exceptionally good works with a beautiful message, so wonderful, thoughtful, funny, mathematical, and at times reflective of the times we live in now.

We received 147 posters, 13 from adults and the rest from school children residing in 25 different states. We loved all the posters, from the ones made with color pencils by younger students to the electronic ones made by older students and adults.

**Congratulations to Arannya Karak** from San Ramon, CA - the Math Kangaroo 2024 poster contest winner. Arannya received the Best Poster certificate of excellence and Amazon gift card in the amount of \$200.



**ARANNYA KARAK**

**San Ramon, CA**

This is what Arannya says about herself:

"I am a dedicated homemaker and a passionate Graphic Design student. I live in San Ramon, CA.

My son Arhan Karak, who is in 3rd grade, is enrolled in the Russian School of Mathematics (RSM). We came to know about the Math Kangaroo competition from there. I found out about the Math Kangaroo poster contest from the Math Kangaroo website after I registered him for the competition.

I am passionate about drawing, painting, handcrafts and digital illustrations.

I tried to keep the image and color palette similar to the Math Kangaroo website logo. I chose the fonts that are easy to read. I considered using different sizes and weights to create visual interest and guide the viewer's eye through the design. I designed a kangaroo riding a bicycle in the center of the poster which symbolizes it as a primary vehicle of our childhood. The kangaroo wears a cape with mathematical symbols and the bicycle is also made with basic shapes. I have also tried to introduce the 'pi' symbol with a fun character."



# XXVII Math Kangaroo Competition in USA

For students in grades 1 through 12

*Date: Thursday, March 21, 2024*



All students are given recognition and gifts for participation. Over 6 million students participate in Math Kangaroo competition worldwide.



**Registration:** September 15, 2023 till December 15, 2023

**Website:** [www.mathkangaroo.org](http://www.mathkangaroo.org)

**Email:** [info@mathkangaroo.org](mailto:info@mathkangaroo.org)

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## THE WINNING POSTER FOR MATH KANGAROO 2024

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**Congratulations to Arannya for her winning entry and a special thank you to all participants!**

# MATH KANGAROO 2024 T-SHIRT DESIGN

Out of the submitted entries we also recognized another poster that we will use as a MK 2024 T-shirt design.

**Congratulations to Laura Zhang** from Vienna, VA - the Math Kangaroo 2024 t-shirt design winner! Laura received Best T-shirt Design certificate and Amazon gift card of \$100.

**XXVII MATH KANGAROO**   
**COMPETITION IN USA**

**OVER 6 MILLION PARTICIPANTS WORLDWIDE!**  
**RECOGNITION + GIFTS FOR ALL STUDENT PARTICIPANTS!**



**COMPETITION DATE: THURSDAY, MARCH 21, 2024**  
**REGISTER FROM SEPTEMBER 15, 2023 TO DECEMBER 15, 2023**  
**WEBSITE: [WWW.MATHKANGAROO.ORG](http://WWW.MATHKANGAROO.ORG)**  
**EMAIL: [INFO@MATHKANGAROO.ORG](mailto:INFO@MATHKANGAROO.ORG)**





**LAURA ZHANG**  
Grade 11, Vienna, VA

This is what Laura says about herself:

"I'm Laura Zhang, a senior from northern Virginia. I attend Thomas Jefferson High School for Science and Technology, where I serve as the captain of our math team.

I first heard about the Math Kangaroo Competition from my older brother, who participated in Math Kangaroo for many years before me. I came across the Math Kangaroo Poster Contest when I signed up to take this year's Math Kangaroo Competition after a few years of not participating.

Math Kangaroo was the first-ever math competition I took, so my design uses a lightbulb to symbolize how Math Kangaroo helped spark my interest in math. I also wanted to show how math requires putting various ideas together through the different light bulb components. Outside of math and graphic design, I also enjoy journalism and creating YouTube videos."

**Congratulations to Laura for her great design!**

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## CONTACT US

[INFO@MATHKANGAROO.ORG](mailto:INFO@MATHKANGAROO.ORG)

MATH KANGAROO USA, NFP

50820 SUMMIT HILL CT

GRANGER, IN 46530

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