

MATHCOUNTS® FOUNDATION

MOONSHOT THINKERS OF TOMORROW





"The unknowns were rampant."

That was how Neil Armstrong, commander of Apollo 11 and the first person to set foot on the moon, characterized landing the lunar module during a 2001 interview for NASA's Johnson Space Center Oral History Project.

It was a sentiment Armstrong and others conveyed often when discussing the moon landing: from cooling the pressurized space suits to walking in them, from how much lunar dust would cover the surface to whether it would combust when brought into the shuttle. Though undoubtedly one of the greatest achievements in human history, the moon landing was, for those who actually achieved it, an enormous unknown.

We call our students the moonshot thinkers of tomorrow because they carry on our nation's legacy of stunning STEM achievement and, in doing so, overcome their own fears and embrace the unknown.

- Our students in the Competition Series prepare all year to solve problems
 they will have never seen. Some do so in front of a live audience during the
 Countdown Round. National competitor Alan Kappler—one of the brightest
 young mathematicians in the country—captured this feeling of nervous
 exhilaration when he exclaimed "OK, this is so scary" during his Countdown
 Round match-up.
- Our Math Video Challenge students pour their creativity into their projects and post them for all to see—not knowing how their videos will be received.
 Those who advance to the finals present live for more than 200 of their peers.
- Many of our students participate in MATHCOUNTS even though—and because—math scares them a little. Experiencing math club meetings helps them see math in a different light and appreciate the uncertainty of problems they cannot initially solve.
- Many of our students participate in MATHCOUNTS even though—and because—liking math can be socially risky. Navigating middle school becomes easier with mentors and supportive peers at math team practices.

Our students will go on to do great things because they—like the engineers, mathematicians and scientists who risked so much to get us closer to the stars—have cultivated the attitude they need to achieve their goals. And they equally deserve to be celebrated.

So please join us as we honor our moonshot thinkers of tomorrow, and thank the teachers, volunteers, sponsors, alumni and advocates who helped them become the bright, brave problem-solvers they are today.

Ju Ju

John Daegele
Chair
MATHCOUNTS Board of Directors



Kristen L. Chandler
Executive Director
MATHCOUNTS Foundation

MATHCOUNTS JOINS

U.S. DEPARTMENT OF DEFENSE CONSORTIUM OF STEM EDUCATION PROGRAMS

In the future, I would like to develop a new technique that will predict natural disasters with precision to give people time to evacuate the area.

WILLIAM W.. 2019 MATHCOUNTS NATIONAL COMPETITOR n March 2019, MATHCOUNTS was selected to join the U.S. Department of Defense's recently-launched Defense STEM Education Consortium (DSEC).

This multi-year effort with 15 partner organizations supports STEM enrichment programs for students and educators, outreach to students traditionally underrepresented in STEM professions, STEM workforce engagement and program

DSEC funding for the MATHCOUNTS Foundation will support outreach activities and programming, including the Math Video Challenge, workshops for math teachers and extra resources for new coaches and low-income schools.



Johnny Sevilla, Karol Lopez Valadez, Isaias Barrera and Jamie Clemons of Illinois are interviewed by MATHCOUNTS executive director Kristen Chandler at the Math Video Challenge Finals.

2018-2019 MATHCOUNTS

EXECUTIVE ROUNDTABLE

Year 1 Impact Project: I See Future Me

n 2018, the MATHCOUNTS Executive Roundtable launched the I See Future Me (ISFMe) initiative to increase the number of diverse STEM professionals who volunteer and speak at MATHCOUNTS chapter and state competitions. By connecting role models with Mathletes from various backgrounds, ISFMe aims to challenge preconceived notions about STEM professionals and inspire students as they find their paths to math.

Thanks to the efforts of Roundtable members, sponsors and volunteer coordinators around the country, more than 4,300 students at 32 MATHCOUNTS competitions met 45 ISFMe role models this year. ISFMe will continue to expand next year, with a greater focus on chapter-level events.

> Employees from General Motors, including MATHCOUNTS board member Charles Wampler (second from left) and roundtable member Paul Krajewski (far right) volunteer at the Michigan State Competition.

MATHCOUNTS then encouraged me to pursue math even more, and looking back, it is the primary reason I will pursue engineering in college.

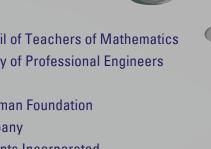
REVATIA.. MATHCOUNTS ALUMNA



Organizations Represented on the 2018-2019 Roundtable

Art of Problem Solving Bentley Systems Incorporated **CNA** Insurance **General Motors** National Council of Examiners for Engineering and Surveying (NCEES)

National Council of Teachers of Mathematics National Society of Professional Engineers NextThought Northrop Grumman Foundation Raytheon Company Texas Instruments Incorporated





MATHCOUNTS® COMPETITION SERIES

46

It is not an exaggeration to say MATHCOUNTS fundamentally changed my life, in terms of my character and my future.

PRASTIK M., MATHCOUNTS ALUMNUS ounded in 1983, the MATHCOUNTS Competition Series makes math exciting and social, while building the critical thinking and problem-solving skills students need to reach their full potential in mathematics. This year, about 90,000 U.S. middle school students participated in competitions across the country.

This year's program launched in August 2018, and educators began coaching student competitors using the 2018-2019 MATHCOUNTS School Handbook, which also was available online as a free math resource for every middle school in the country. In December 2018 and January 2019, having spent the fall preparing with their coaches, Mathletes participated in school competitions, with top students then representing their schools at chapter competitions throughout February. Top students from each chapter competition advanced to one of 56 state competitions in March, where they vied for the opportunity to compete at the 2019 National Competition, which took place in May.

2019 Raytheon MATHCOUNTS National Competition

he eleventh year of Raytheon Company's title sponsorship, the 2019 National Competition commemorated the 50th anniversary of the moon landing—celebrating both the history of American STEM achievement and future moonshot thinkers.

Massachusetts took top honors in both the team and individual competitions for the first time since 2013. National Champion Daniel Mai (pictured with his parents below) won the \$20,000 Donald G. Weinert College Scholarship, and each member of the Massachusetts team won a \$2,000 scholarship and a trip to U.S. Space Camp.

The 2019 Raytheon MATHCOUNTS National Competition took place in Orlando, FL, bringing together 224 students representing every U.S. state, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam and overseas schools affiliated with the U.S. Departments of Defense and State. On May 12, students took the Written Competition and the following day, the 12 students with the highest written scores competed in the Countdown Round, which was hosted for the second time by actor, author and audiobook narrator Wil Wheaton.



2019 MATHCOUNTS
National Competition Sponsor





2019 National Competition Winners

2019 National Champion

Daniel Mai, MA

2019 Written Competition Champion

Huaye "Jeff" Lin, MA

Countdown Round Runner-Up Suyash Pandit, OR

Suyasii Panuit, Un

Written Competition Runner-Up Daniel Mai, MA

Daillei Mai, MA

Countdown Round Semifinalists

Samuel Wang, VA Ethan Zhou, VA

Countdown Round Quarterfinalists

William Chen, CA Huaye "Jeff" Lin, MA Jessica Wan, PR Rich Wang, TX

Countdown Round Participants

Ram Goel, OR Alan Kappler, OR Eric Shen, CA Karthik Vedula, FL

1st Place Team – Massachusetts

Kaylee Ji, Huaye "Jeff" Lin, Daniel Mai, Max Xu; Josh Frost, Coach

2nd Place Team – Florida

Wesley Chen, Aaron Hu, Razzi Masroor, Karthik Vedula; Pushpa Kurian, Coach

3rd Place Team - California

William Chen, Alan Lee, Eric Shen, Andrew Wen; Peta-Gaye Robinson, Coach

Three-Time National Competitors

Joy An, WA
Siddharth Doppalapudi, AL
Edward Guthrie, MT
Justin Pan, AL
Anshul Rastogi, NH
Nolan Severance, ND
Kenichiro Suzuki, MS
Yunrui "Ryan" Yang, CT
Ethan Zhou, VA





MATHCOUNTS CONDUCTS OUTREACH **ACTIVITIES TO SUPPORT TEACHERS**

meaningful learning opportunities.

It's hard for me to imagine my life if MATHCOUNTS hadn't been a part of it and I'm grateful for having such an opportunity to mature as a student and as a teammate.

TYLER P., MATHCOUNTS **ALUMNUS**

he PwC Charitable Foundation, Inc. awarded MATHCOUNTS a Reimagine Grant this year to support outreach activities in the greater Washington, DC area. As part of that work, on April 27, 2019, MATHCOUNTS hosted a workshop for 20 math and special education teachers in Baltimore, some of whom were affiliated with Morgan State University's Center for Excellence in Mathematics and Science Education.

On July 18, 2019 MATHCOUNTS partnered with Chicago Public Schools (CPS) to conduct a twosession workshop for 57 CPS math teachers. This was the fifth time MATHCOUNTS provided professional development opportunities for CPS teachers. Employees from CNA Insurance, a founding sponsor of MATHCOUNTS, volunteered at the event.

In addition to workshops, this year MATHCOUNTS started an initiative to provide extra support for first-time coaches and low-income competition schools. Coaches received guided lessons for team meetings, access to video explanations of math problems and advice from outreach staff and veteran coaches. A portion of these efforts was funded by 3Mgives, which also provided free registration and subscriptions to the OPLET math problem database for lowincome schools in 10 states where 3M has a facility.

The MATHCOUNTS Foundation will continue to support educators in underserved areas as part of its commitment to giving all students equal access to







ith support from the Northrop Grumman Foundation, MATHCOUNTS provided free resources to nearly 3,400 schools and extracurricular groups through the National Math Club this year. Registered clubs received a Club in a Binder with games designed to work for groups of any size and make learning math fun for students at every level of skill development.

Clubs registered throughout the year and received the binder, plus access to an app and other online materials. More than 400 clubs achieved Silver Level Status in recognition of their students' active participation; 165 clubs earned Gold Level Status, awarded to clubs that completed a collaborative project. Silver and Gold Level clubs earned pennants, banners, pencils, certificates and entry into prize drawings.

2019 Grand Prize Drawing Winner

The Gold Level club at Stonewall Middle School in Manassas, VA won the Grand Prize: a \$500 gift card, plus an all-expenses-paid trip for four students and the club leader to attend the 2019 Raytheon MATHCOUNTS National Competition as distinguished guests. Students Alexander Murphy, Pishoy Elias, and Purnika Adhikari and club leader Kate Roscioli were presented their Gold Level banner (all pictured on pg. 8) during the event.

NORTHROP GRUMMAN





Bluffs Middle School, Scottsbluff, NE; Shelby Aaberg, Club Leader

Challenger School - Middlefield, Palo Alto, CA; Pragna Dusankar, Club Leader

Desert Ridge Middle School, Albuquerque, NM; Judy Moore, Club Leader

Eden Christian Academy, Sewickley, PA; Dawn Butterworth, Club Leader

Seminole Science Charter School, Lake Mary, FL: Megan Lown, Club Leader

Christian Chapel Academy Middle School, Columbia, MO; Mary Skyvalidas; Club Leader

Silver Drawing Winners

Landstuhl Middle School. Landstuhl, Germany (Dept. of Defense); Kara Stolee-Kiefer, Club Leader

Memorial Middle School, Spotswood, NJ; Stefanie Bromberg, Club Leader

Nashua Catholic Regional Junior High School, Nashua, NH; Patricia Spear, Club Leader

Oceanside Adventist Elementary School, Oceanside, CA; Phyllis Watson, Club Leader

Portage Park School, Chicago, IL; Marisa Volpe, Club Leader

Ringgold Middle School, Monongahela, PA; Krista Klorczyk, Club Leader

Saint Ambrose, Latham, NY; Lily Spera, Club Leader

Sparkman Middle School, Toney, AL; Kala Jo Grice-Dobbins, Club Leader

Traverse City East Middle School, Traverse City, MI; Robert Sagan, Club Leader



Above: Stonewall Middle School's math club is presented its Gold Level banner. Right: The Gold Level Project created by students from the Whitnall Middle School math club.



It was through **MATHCOUNTS** that I really developed a passion and excitement for mathematics and problemsolving in general.

WILLIAM W.. MATHCOUNTS ALUMNUS



tudent filmmakers and team advisors participating in this year's Math Video Challenge created 266 videos that explained the solution to a MATHCOUNTS problem in a real-world setting. Four-person teams, led by educators serving as team advisors, registered for free throughout the fall and winter. Using the 2018-2019 Math Video Challenge Playbook, plus numerous online resources, teams created original videos and posted them to the Math Video Challenge website. After advancing through general public voting and two rounds of scoring by a panel of expert judges, four teams advanced to the contest finals.

2019 Math Video Challenge Finals

Sixteen finalist students and four team advisors received an all-expenses-paid trip to the 2019 Raytheon MATHCOUNTS National Competition to present their videos to the 224 national finalists in the Competition Series, who voted to determine the winner. On a stage styled like a Hollywood movie premiere, MATHCOUNTS executive director Kristen Chandler interviewed each team about the behind-thescenes effort that went into their video.



Malik Francis, Ciara Rodney, Gloria Lugo and Taragee Gumbs of the U.S. Virgin Islands are presented their finalist plaques bv Kristen Chandler at the Math Video Challenge Finals.

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2019 First Place Video

"Algenite" by Team Switcharoo Crew, GA

Robert Hardy, Emily Ramirez, Jordan Adeyemi and Naima Johnson (pictured at right with Kristen Chandler)

Dr. Valerie Camille Jones, Team Advisor: Junior Bernadin, Co-Advisor

When four students accidentally switch minds with each other and get trapped inside the video game Algenite, they must work together to create a potion that will switch everything back to normal. Will their problem-solving skills succeed or will their "switcharoo" become permanent?



2019 Finalist Videos

"Going Home" by RMSPG2018, IL

Isaias Barrera, Jamie Clemons Richardson, Karol Lopez Valadez, Johnny Sevilla Bruce Williams, Team Advisor

In the year 2036, four space adventurers on an expedition to Mars realize they will not have enough fuel to return home if they stick to their planned course. Using geometry, the crew plots a shorter course that solves their fuel problem and gets them home safely.

"Remainder" by the Remainders, GA

Sanai Edwards, Haley Jones, Amari May, Maia Pope Junior Bernadin, Team Advisor; Dr. Valerie Camille Jones, Co-Advisor

Two teams of castaways on a reality TV show, "The Remainder," compete in a challenge to get one step closer to winning a million dollars. Both teams must use proportional reasoning skills to come up with a winning strategy...but which team will be the Remainder?

"#VI Strong" by BCB Blazers, VI

Malik Francis, Taragee Gumbs, Gloria Lugo, Ciara Rodney Mark Joseph Sy, Team Advisor

BCB Middle School took in students from a neighboring school that was destroyed by back-to-back Category 5 hurricanes. In need of funding, BCB's educators must calculate the overall increase in the school's enrollment to get support from FEMA and the local government.

What I would like to accomplish in the future is to create a robot that can identify and recycle pollutants and plastic waste anywhere on Earth on any terrain, while also appearing eco-friendly and not disrupting the overall beauty of the landscape.

SAMPADA N... 2019 MATHCOUNTS NATIONAL COMPETITOR



2018-2019

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Chapter coordinator Eve Egelhof (left) with a volunteer at the Manhattan Chapter Competition

2018-2019

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Vimala lyer

Sunil Jha

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Yi Hu

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Eric Newman Belinda Nixon Wendy Pomerantz Holger Sieg Marshall Smith

Emalee Socolosky

Frank Story Cris Turner **Donald Weinert**

Betsy and Brad Westgate Ziran Xiao

Xinyu Yang Dr. Xiaolan Ye

Additional Gifts Anonymous (19) Anonymous Raytheon **Brian Abbey** Cole Abernathy Viren Amin Christine Ausnit-Hood Jonathan Baethge John Baker Lynette Barresi Kim Bartak Caryn Berardi Rebecca Black Nancy Blackwell Steven Blasberg Holly Blum Jon Bock Steven Bradbury Chris Bright Abbie Brown Nathan Brown Michele Burgess Timothy Buss Lixin Cao Harry Carpenter Jr. Warren Carter John Casey Samidh Chakrabarti Whitney Chamberlain

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Robert Schad

One day, I'd love to use my problem solving and math skills to create a mathematical model to find a way to minimize medicinal side effects for an individual patient, based on their specific DNA, so they can live their best life.

Roy and Marilyn Schmidt Michael Sestak Anita Shah Douglas Sheets Craig Shelden

Deanna Zhang Naigiu Zhang Xianggang Zhang Xiyu Zhou Jeffrey Zickus

Maribeth Younger

Chunrong Zhang

12 I MATHCOUNTS FOUNDATION 2018-2019 ANNUAL REPORT | 13 2018-2019 MATHCOUNTS

COORDINATORS



New Resources Created for Coordinators

This year, MATHCOUNTS introduced new resources to help coordinators plan and run chapter and state competitions. Among the resources were a revamped 2018-2019 Coordinator Manual, with extra samples and templates, plus expanded sections on school recruitment and fundraising, MATHCOUNTS also hosted webinars about the WINNER blueprint for a successful competition and Competition Day logistics. In addition to these new resources, the I See Future Me initiative will help coordinators recruit engaging guest speakers and volunteers to enrich the local MATHCOUNTS events they coordinate.

More than 600 volunteers, most of whom are affiliated with the National Society of Professional Engineers, donate countless hours and resources to put on hundreds of chapter and state competitions. MATHCOUNTS is incredibly grateful for the generosity and passion of these hardworking coordinators, without whom the MATHCOUNTS Competition Series simply would not be possible

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14 | MATHCOUNTS FOUNDATION 2018-2019 ANNUAL REPORT | 15

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Elizabeth Mamczarz of Guam gets ready to start

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Tim Wiles, P.E.

Samuel Wilson, P.E., F.NSPE

Kevin Wood

I would like to use my mathematical skills to help colonize places other than Earth, to ensure the existence of humanity into the future, and hopefully use the things we learn there to improve life on Earth and beyond.

Yunrui Yang and Adeethyia Shankar of Connecticut at the Countdown Round.

MEENA BOPPANA

46

I discovered a deep passion for teaching math, as well as for leveling the playing field in education by race, gender and income. The experience showed me that if I saw an injustice, I could take direct steps to be the change I wanted to see.

MEENA BOPPANA

eena Boppana, pictured at right, of Somerville, MA won the 2019 MATHCOUNTS Alumni Scholarship, a \$3,000 award given to an alumnus/a whose academic and professional journey was significantly influenced by his or her time in MATHCOUNTS.



A Harvard graduate who grew up in New York City,

Meena was a member of the New York State Team at the MATHCOUNTS National Competition. The experience inspired her to start her own MATHCOUNTS team at Girls Prep in Lower Manhattan to help increase female participation in MATHCOUNTS. Last year, after spending a few years as a software engineer, Meena returned to Harvard to pursue her passion of becoming a math teacher in Boston Public Schools.

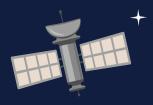
2019 Runner Up: Karen Ge

MATHCOUNTS also awarded a \$1,500 scholarship to runner-up Karen Ge, pictured at right, of Naperville, IL. A senior in high school, Karen already has served as a MATHCOUNTS coach, founded her own non-profit tutoring organization and even published her own book about her MATHCOUNTS

experiences. She said, "MATHCOUNTS has brought so much light into the lives of young adults struggling with themselves and their place in the world; MATHCOUNTS has given them a home, as it did for me."



Audited Financials
August 1, 2017 - July 31, 20



	UNRESTRICTED	TEMPORARILY RESTRICTED	TOTAL	
REVENUE				
Contributions and Grants	\$1,150784	\$875,000	\$2,025,784	
School Registration Fees	\$1,073,807		\$1,073,807	
Coaching Materials Revenue	\$102,384		\$102,384	
National Competition Revenue	\$46,756		\$46,756	
Sale of Trophies and Promotional Items	\$22,948		\$22,948	
Investment Income	\$150,512		\$150,512	
Miscellaneous Income	\$150		\$150	
Net Assets Released from Restrictions	\$600,000	(\$600,000)		
Total Revenue	\$3,147,341	\$275,000	\$3,422,341	
EXPENSES				
PROGRAM SERVICES				
The National Math Club	\$221,438		\$221,438	
College and Outreach Programs	\$185,876		\$185,876	
Math Video Challenge	\$117,100		\$117,100	
Volunteer Support	\$246,672		\$246,672	
Curriculum Development	\$113,164		\$113,164	
National Competition	\$926,974		\$926,974	
School Recruitment	\$263,610		\$263,610	
Production of Coaching Materials	\$52,368		\$52,368	
School Registration and Materials	\$494,805		\$494,805	
Coordinator Convention	\$167,271		\$167,271	
Total Program Services Expenses	\$2,789,278		\$2,789,278	
SUPPORT SERVICES				
General and Administration	\$189,895		\$189,895	
Fundraising	\$170,972		\$170,972	
Total Support Services Expenses	\$360,867		\$360,867	
Total Expenses	\$3,150,145		\$3,150,145	
CHANGE IN NET ASSETS	(\$2,804)	\$275,000	\$272,196	

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2019 Scholarship Finalists

Annette Belleman, Dept. of Defense

Christina Bingham, ND

Jude Flynn, FL

Alexander Kalbach, PA

Arjun Krishna, AR

Isabella Mahal, CO

Erin Melton, WI

Prastik Mohanraj, CT

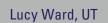
Anusha Murali, NH

Tyler Phung, NV Annie Shen, WA

Sonal Sinha, MN

Collin Van Cuyk, WI

William Wang, KS



Catherine Ye, NY

Saba Zerefa, AZ

Michelle Zhu, IN

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