



## MATHCOUNTS SPONSORS

### TITLE SPONSORS

Raytheon Technologies  
U.S. Department of Defense STEM

### LEAD SPONSOR

Northrop Grumman Foundation

### NATIONAL SPONSORS

National Society of  
Professional Engineers  
3Mgives  
Texas Instruments Incorporated  
Art of Problem Solving

### EXECUTIVE SPONSORS

Bentley Systems Incorporated  
General Motors  
Google

### SUSTAINING SPONSORS

BAE Systems, Inc.  
National Council of Examiners for  
Engineering and Surveying  
CNA Insurance  
The PwC Charitable Foundation, Inc.

### FOUNDING SPONSORS

National Society of  
Professional Engineers  
National Council of  
Teachers of Mathematics  
CNA Insurance

## ONLINE CHAPTER COMPETITIONS & EXTRA IN-PERSON EVENTS FOR 2022

For the safety of participants and volunteers, and with input from many members of our community, the MATHCOUNTS national office has decided to host the official 2022 Chapter Competition online. The competition will take place on the Art of Problem Solving Contest Platform on **February 17, 2022**. Though the official Chapter Competition will be conducted online, MATHCOUNTS will support additional fun in-person events in local chapters where it is safe and possible to do so. **The state and national competitions are also still currently planned as in-person events.**

"We were eager to return to a fully 'normal' program year, but our volunteer coordinators around the country faced significant logistical obstacles while securing venues due to COVID restrictions," said executive director Kristen Chandler. "We believe this is the best way to conduct this year's Chapter Competition fairly and safely."

Learn more and register by  
December 17 at  
[mathcounts.org/competition!](http://mathcounts.org/competition!)

MATHCOUNTS has also maintained some of the popular changes from the 2020-2021 program year, including:

- increasing the maximum participants per school from 10 to 12
- allowing students whose schools cannot participate to register as non-school competitors
- providing two online practice competitions in addition to the School Competition

## MATHCOUNTS LAUNCHES NEW WEBSITE

Help low-income schools reach new heights!

This Giving Tuesday, **November 30**, donate to MATHCOUNTS to support Mathletes from low-income Competition Series schools.

[mathcounts.org/donate](http://mathcounts.org/donate)

This summer, MATHCOUNTS redesigned its website with a fresh look and updated features for users. With our **new resource library**, educators can access our hundreds of free math resources and quickly search for resources by type, math topic, standard and difficulty level. Free to the public at [mathcounts.org/resources](http://mathcounts.org/resources), the resource library contains past Problems of the Week, educational videos, practice plans and more!

MATHCOUNTS also revamped its registration portal and program leader dashboards, allowing users to save time when registering for multiple programs and access all program resources in one place.

## RELAUNCHED MATHCOUNTS MONTHLY EMAIL

The new MATHCOUNTS Monthly will provide strategies and guidance for registered coaches, club leaders and video team advisors to reach and support all students—particularly those from groups underrepresented in STEM. In addition to the same great resource recommendations, this monthly email will feature interviews from MATHCOUNTS teachers, tips based on research from education experts, and quotes from students and alumni about what made their experiences in MATHCOUNTS most meaningful.

## SPOTLIGHT: DOD STEM AMBASSADOR TYLER ERB

Since 2019, MATHCOUNTS has been part of the Defense STEM Education Consortium (DSEC), a coalition of organizations that aim to broaden STEM literacy. As a member of DSEC, the MATHCOUNTS Foundation is invited to select an expert teacher to represent MATHCOUNTS in the DoD STEM Ambassador program and advance STEM outreach. **Congratulations to this year's DoD STEM Ambassador, Tyler Erb!**

Tyler is a MATHCOUNTS coach and teacher at Community House Middle School in Charlotte, NC. A past recipient of the National Science Foundation's PAEMST Award for Secondary Math Teaching, Tyler is passionate about getting students of all backgrounds excited about math. "Not having a strong foundation in math is akin to not being able to talk or listen to the world," he said. "In this day in age... we need students who can listen to the world."

As the DoD STEM Ambassador for MATHCOUNTS, Tyler will create new MATHCOUNTS resources that facilitate remote learning, present at a conference to share MATHCOUNTS resources and meet virtually each month with other ambassadors. "I have been a coach for 8 years, so getting to share what I use or do with a broader audience means I get to help even more kids. I know when I started out, I struggled not knowing how to solve some of the harder problems. Creating targeted videos and problems will be helpful for other coaches starting out," he said.

Keep an eye out for awesome resources from Tyler throughout the year, and check out the amazing Practice Plans our 2020 STEM Ambassador, Taren Long, created at [mathcounts.org/resources!](http://mathcounts.org/resources!)



Tyler working with his students.

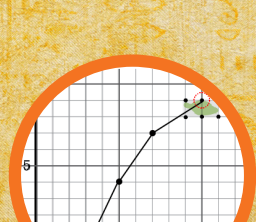
## NEW MATH CLUB ACTIVITIES CREATED

The National Math Club has entered its 15th year of providing a fun, low-pressure environment where students can grow to love math through games and creative activities. This year, MATHCOUNTS developed three new club activities:

- a **game** of "growing" plants in a coordinate grid named "Hey Bud, How's It Growing?"
- an **exploration** into Pascal's Triangle
- a **problem set** focused on statistics and data as part of our commitment to create data science resources through Data Science 4 Everyone

Thanks to the work of Genevieve Esmende, a club leader and educator affiliated with UC San Diego CREATE, many of the National Math Club resources are now also Google Classroom compatible.

"With many students returning to in-person learning this fall, the National Math Club remains as important as ever for creating fun, interactive experiences with math," said executive director Kristen Chandler. "We're proud to have served tens of thousands of students and educators with this program for the past 15 years and are excited to continue doing so in the future."



Take surveys on 11/30 to support us on Giving Tuesday!

On **Tuesday, November 30**, Momentive will **donate \$1** to the MATHCOUNTS Foundation for every anonymous survey you take through Survey Monkey Contribute! This is a great way to **give back to MATHCOUNTS for free.**

Learn more + take surveys:

[mathcounts.org/smc](http://mathcounts.org/smc)

## Celebrating 15 Years of the National Math Club!

Can you solve our special problem and identify all the references to our theme?

The math club at Patrick Mahomes Middle School on Quince Street in Kentucky has 15 members in grades 6-8. The ratio of 6th graders to 7th graders in the club is 2:1:2. How many students in the club are 7th graders?

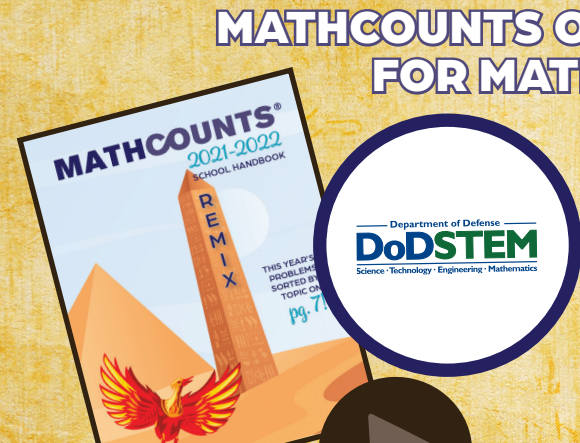
Answer: 3 students (Patrick Mahomes is #15 on the Kansas City NFL team; a quince is a type of fruit tree, but also is Spanish for 15; Kentucky was the 15th state to join the US and there are 15 members in the club!)

Because of support from the Northrop Grumman Foundation, participation is completely free! Educators at schools and non-school groups can register all year at [mathcounts.org/reg](http://mathcounts.org/reg) to receive access to online activities, plus a mailed kit with game supplies, pencils and an activities calendar for quick planning.

## BRILLIANT FOR EDUCATORS

New this year, MATHCOUNTS coaches and club leaders can sign up for Brilliant for Educators for free. Go to [mathcounts.org/brilliant](http://mathcounts.org/brilliant) to get awesome interactive lessons and tools to enrich your math team or club meetings or math class instruction.

## MATHCOUNTS OPENS TEAM REGISTRATION FOR MATH VIDEO CHALLENGE



The Math Video Challenge will once again provide students a fun learning opportunity to explore math through an **interdisciplinary project**. Participants work in teams of four to create a video solving a MATHCOUNTS problem in a real-world setting to earn recognition, great prizes and even college scholarships. Thanks to support from the U.S. Department of Defense STEM, this program is completely free!

"I like that any student can participate and be involved in some way," said one team advisor from last school year. "I saw my students' confidence grow not only in math but in being creative and collaborating with others."

Teams can work together in person or remotely, using either the live-action or animated video resources provided by MATHCOUNTS. Schools and non-school groups can **register and submit videos now through March 11**, and teams that register by January 11 will be entered in a prize drawing!

Learn more and register by  
March 11 at [mathcounts.org/mvc!](http://mathcounts.org/mvc!)

### Alumni Scholarship

Know an awesome former MATHCOUNTS student who is a senior in high school or in college?

Encourage them to apply for the MATHCOUNTS Alumni Scholarship by Jan. 9!

[mathcounts.org/scholarship](http://mathcounts.org/scholarship)