

THE NATIONAL
MATHCLUB

powered by **MATHCOUNTS**[®]



2023-2024
CLUB LEADER GUIDE

Have your club members submit
their information for entry into
monthly club prize drawings!



Reporting information to our sponsors is necessary to keep the National Math Club a **free program**.

For **every unique club member** who submits their information through the webform above, your club will earn **1 entry into monthly prize drawings**. If you have 20 club members and they all submit the webform on October 1st, for example, your club will earn 20 prize drawing entries for every monthly drawing October through May!

Each month, there will be **1 winning club selected**. The winning club will receive a **"swag bag,"** with MATHCOUNTS giveaways, club materials and/or gift cards, **valued at \$150**.

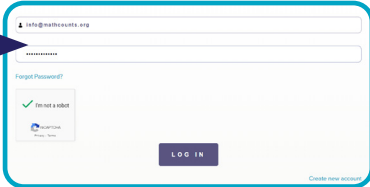
Have your club members submit their information **early** to maximize your club's prize drawing entries! Thank you for your support!

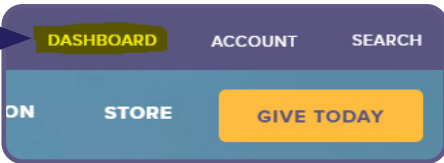
CLUB LEADER GUIDE

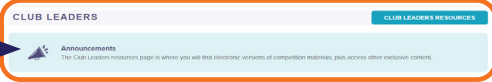
Welcome to the National Math Club! Thank you for volunteering your time to be a club leader. Your work matters; participating in a math club helps students of all math backgrounds unlock their full potential and discover their love of math. This Club Leader Guide will help acquaint you with the National Math Club and explain your role as a club leader in this program.


What are my resources? With this guide, you received a poster and a sheet of water bottle stickers to kick off your club! Additionally, MATHCOUNTS provides all the club meeting plans you'll need to host club meetings throughout the year. Instructions and any necessary student copies can be viewed and downloaded from the Club Leaders Resources page of the website.


- 1 Log in at www.mathcounts.org. Click the **LOG IN** button at the top right of the homepage, then follow the instructions to log in. Don't forget to check the reCAPTCHA box at the bottom.


- 2 Go to the top right corner of the page, and click Dashboard in the purple bar.


- 3 Scroll down to the Club Leaders section of the Dashboard. Click the blue Club Leaders Resources button on the right side.


- 4 On the Club Leaders Resources page, you'll find links to **games**, **explorations** & **problem sets**, as well as information about Gold & Silver Level and the Club App.



 **ANY QUESTIONS?**
INFO@MATHCOUNTS.ORG
703-299-9006

WHAT'S NEW?

THREE NEW ACTIVITIES

Turn to page 9 of this guide for details on the three new National Math Club activities for 2023-24.



MONTHLY CHALLENGES

Back by popular demand, we will be posting 5-question challenges each month on the Club Leader Dashboard.

NEW GOLD LEVEL PROJECT OPTIONS

With the discontinuation of the Math Video Challenge program in 2023-24, we are introducing a new video project option that will maintain elements of the Math Video Challenge, but be more math-centric. There



is also a new Math in Art project option. The Community Service project option remains in place this year. See page 15 of this guide for more details.

WEBSITE RECOGNITION

We thought our clubs deserved more visibility and personalized recognition, so Silver and Gold Level clubs will now be asked to submit a photo to be displayed on the MATHCOUNTS website with their club name.

GOLD LEVEL HONOR ROLL

While the requirements to attain Gold Level have *not* changed, the Gold Level Honor Roll will allow Gold Level clubs to earn even more recognition for the hard work they put into their projects. See page 14 of this guide for more details.



CLUB MEETING PLANS

Meeting plans are organized into three types of activities: **games**, **explorations** & **problem sets**. Instructions for each activity are on the Club Leaders Resources page at www.mathcounts.org/clubleaders.

We have designed every activity so each can be (1) **scaled** to work with groups of any size, (2) played with **simple materials** like paper clips and cards and (3) **differentiated** for students at various levels of math skill development.

GAMES



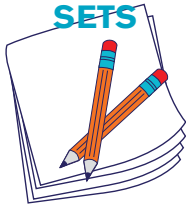
Fun and competitive use of math skills & problem solving

EXPLORATIONS



Collaborative, hands-on & non-traditional math activities

PROBLEM SETS



Topic-focused problems & holiday-themed worksheets

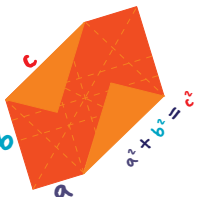
Ex: **SALUTE**



The sum is one.

Practice algebra through a “heads-up” style card game.

Ex: **PROOFIGAMI**



$a^2 + b^2 = c^2$


Use origami to create a physical proof of the Pythagorean Theorem.

Ex: **TALK LIKE A PIRATE DAY**



Follow a map to discover math “treasure” around the school.

CLUB LEADER CALENDAR






 = GAME






 = MINI






 = EXPLORATION

 = MONTHLY CHALLENGE






 = PROBLEM SET






MONTH	SUGGESTED ACTIVITIES	THEME
September	<ul style="list-style-type: none">  MATHCOUNTS Trashketball  Let's Make an Educated Guess  Talk Like a Pirate Day (Sept. 19)  Mini #92: Probability Problem Solving  September Monthly Challenge 	Probability and Counting






MONTH	SUGGESTED ACTIVITIES	THEME
October	<ul style="list-style-type: none">  Salute  Mathmagicians  Halloween (Oct. 31)  Mini #4: Algebra/Manipulating Equations (Parts 1 and 2)  October Monthly Challenge 	Algebra

MONTH	SUGGESTED ACTIVITIES	THEME
November <i>Silver Level Application opens November 1st</i>	<ul style="list-style-type: none">  Lobster Pots  Making Your Money Grow  Piggy Bank Day (Nov. 2)  Mini #55: Algebraic Equations from Word Problems  November Monthly Challenge 	Personal Finance






MONTH	SUGGESTED ACTIVITIES	THEME
December <i>Gold Level Application opens December 1st</i>	 Math BINGO  KenKen  Bake Cookies Day (Dec. 18)  Mini #59: Ratios  December Monthly Challenge	Proportional Reasoning and Review

MONTH	SUGGESTED ACTIVITIES	THEME
January	 Marble Challenge  Pascal's Triangle  Measure Your Feet Day (Jan. 23)  Mini #56: Arithmetic Sequences  January Monthly Challenge	Sequences and Patterns

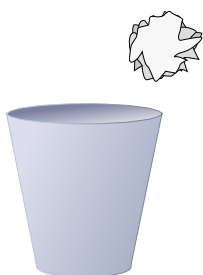
MONTH	SUGGESTED ACTIVITIES	THEME
February <i>Engineers Week is Feb. 19–23</i>	 Multiplication Game  DiscoverE's Truss Bridge Activity  Valentine's Day (Feb. 14)  Mini #64: More Than One Way to Solve a Problem  February Monthly Challenge	Problem Solving

MONTH	SUGGESTED ACTIVITIES	THEME
March	 Fence Me In  Proofigami  St. "Pi"trick's Day (March 14–17)  Mini #94: Make a Sketch  March Monthly Challenge	Geometry and Visualization

MONTH	SUGGESTED ACTIVITIES	THEME
April	 Hey Bud, How's It Growing?  Connect the Dots  Grow Your Math Garden  Mini #28: New Approaches to Rate \times Time = Distance  April Monthly Challenge	Algebra and Graphing

MONTH	SUGGESTED ACTIVITIES	THEME
May <i>Gold and Silver Application deadlines are May 3</i>	 Reflection Battle  Symmetry Puzzles  Math Club Day  Mini #65: Seeing Symmetry in Systems of Equations  May Monthly Challenge	Symmetry

NEW ACTIVITIES THIS YEAR



MATHCOUNTS TRASHKETBALL

A classic review game in classrooms across the country, MATHCOUNTS's Trashketball is different, drawing inspiration from this year's poster. Teams can earn 1, 5 or 10 points with each shot, but if they have the same number of points as another team at the end of a round, they both lose!



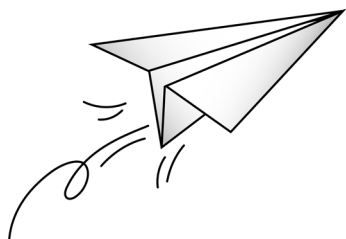
DISCOVER



ENGINEERING

TRUSS BRIDGE ACTIVITY

From our friends at DiscoverE, this activity has students build and test a truss bridge between two chairs. Find even more STEM activities at DiscoverE.org/stem-activities/.



PAPER PLANES

First seen in EWeek 2023, students will explore the principles of engineering in this exploration. They will create, test and modify paper airplanes to try to get them to fly the farthest.



SILVER LEVEL FAQ

WHAT IS SILVER LEVEL STATUS?

Silver Level Status is awarded to clubs that meet at least five times.

WHAT WILL MY CLUB GET IF IT ATTAINS SILVER LEVEL STATUS?

- 24 MATHCOUNTS Silver Level pencils and a Silver Level Pennant*
- Entry into the Silver Level drawing for a \$100 gift card (20 winning clubs are selected)*
- Certificates for your club members (template emailed to the club leader in PDF form)
- Club recognition on the Silver and Gold Clubs recognition page of the MATHCOUNTS website



**Pennant, pencils and entry into the drawing are guaranteed only if an application is received by 11:59pm ET on May 3, 2024.*

HOW DO I SUBMIT MY APPLICATION, AND WHAT DOES IT ENTAIL?

Once logged into your account on the MATHCOUNTS website, you can apply at www.mathcounts.org/dashboard. Click “Apply” in the Silver column. The application will ask you to:

- Confirm you have met at least 5 times with at least 4 eligible students at each meeting.
- Provide basic demographic information on your club members as a group, even if every student did not attend every meeting.
- Upload an image to be included with your club’s name on the Silver and Gold Clubs recognition page of the MATHCOUNTS website. (This is optional. If you choose not to upload an image, a placeholder image will be displayed for your club.)

SILVER LEVEL FAQ

WHEN IS THE APPLICATION DUE?

To guarantee your club will receive all prizes, as well as entry into the Silver Level drawing, MATHCOUNTS must *receive* your application by 11:59pm ET on May 3, 2024.



HOW LONG DOES IT TAKE MATHCOUNTS TO PROCESS A SILVER LEVEL APPLICATION?

It takes 1-5 business days for MATHCOUNTS to process a Silver Level Application once it is received. If you do not receive an email from MATHCOUNTS about the status of your application within a week of submitting it, please email info@mathcounts.org to make sure your application was received.

CAN MY CLUB APPLY FOR GOLD LEVEL WITHOUT FIRST ACHIEVING SILVER LEVEL STATUS?

No. Only Silver Level clubs are eligible to apply for Gold Level Status.

WHEN WILL THE DRAWING WINNERS BE ANNOUNCED?

Drawing winners will be announced on the MATHCOUNTS website by May 17, 2024.



GOLD LEVEL FAQ

WHAT IS GOLD LEVEL STATUS?

Gold Level Status is the next level of recognition available to Silver Level clubs. To achieve this, your math club must complete at least one Gold Level Project. Your club can choose to complete any of the 3 options for the 2023-24 Gold Level Project.

WHAT WILL MY CLUB RECEIVE IF IT ATTAINS GOLD LEVEL STATUS?

- 36 MATHCOUNTS Gold Level pencils and a Gold Level Banner (in lieu of Silver Level Pennant and pencils)*
- Entry into the Gold Level drawing for a \$200 gift card (five winning clubs are selected and will be announced on May 17, 2024)*
- Certificates for your club members (template emailed to club leader in PDF form)
- Club recognition on the Silver and Gold Clubs recognition page of the MATHCOUNTS website

**Banner, pencils and entry into the drawing are guaranteed only if a club's Gold Level Application and project evidence are received by 11:59pm ET on May 3, 2024.*



CAN MY CLUB APPLY FOR GOLD LEVEL WITHOUT FIRST ACHIEVING SILVER LEVEL STATUS?

No. Only Silver Level clubs are eligible to apply for Gold Level Status.

HOW DO I SUBMIT MY APPLICATION, AND WHAT DOES IT ENTAIL?

Once logged into your account on the MATHCOUNTS website, you can apply at www.mathcounts.org/dashboard. Click "Apply" in the Gold column. The "Apply" button will only appear once your club has attained Silver Level Status. The application will

GOLD LEVEL FAQ

ask you to:

- Submit 1 document containing all required project elements or evidence. The specific requirements for each project type are outlined in the project instruction documents found at www.mathcounts.org/gold.
- Upload an image to be included with your club's name on the Silver and Gold Clubs recognition page of the MATHCOUNTS website. (This is optional. If you choose not to upload an image, a placeholder image will be displayed for your club. You will have the option to continue using the same image that you submitted for Silver Level recognition.)

CAN MY CLUB SUBMIT MORE THAN ONE GOLD LEVEL PROJECT?

Yes. Only one project is required for a club to attain Gold Level Status, but any additional projects submitted will also be considered for Gold Level Honor Roll (see page 14).

WHEN ARE THE APPLICATION AND PROJECT DUE?

To guarantee your club will receive all prizes, be entered into the Gold Level drawing, and be considered for Gold Level Honor Roll, MATHCOUNTS must *receive* your application and project evidence by 11:59pm ET on May 3, 2024.

HOW LONG DOES IT TAKE MATHCOUNTS TO PROCESS A GOLD LEVEL APPLICATION?

It takes up to 10 business days for MATHCOUNTS to process a Gold Level Application once it is received. If you do not hear from MATHCOUNTS about the status of your Gold Level Application within two weeks of submission, please email info@mathcounts.org to make sure your application and project evidence were received.

GOLD LEVEL HONOR ROLL

WHAT IS GOLD LEVEL HONOR ROLL AND HOW DOES IT WORK?

Gold Level Honor Roll is the highest honor in the National Math Club. All submitted Gold Level Projects will be reviewed by a group of volunteers from MATHCOUNTS sponsor organizations. These volunteers will select 3 outstanding Gold Level Projects from each project option to be highlighted on the MATHCOUNTS website. These 9 projects make up the Gold Level Honor Roll. This recognition is *in addition to* the prizes and recognition received for reaching Gold Level Status.

WHAT WILL MY CLUB RECEIVE IF ONE OF THEIR PROJECTS MAKES IT ONTO THE GOLD LEVEL HONOR ROLL?*

- A \$250 gift card
- Personalized certificates for the club members who worked on the highlighted project (MATHCOUNTS will reach out to the club leader for these students' names once the Honor Roll projects have been selected)
- Recognition on the Gold Level Honor Roll page of the MATHCOUNTS website

**Consideration for Gold Level Honor Roll is guaranteed only if a club's Gold Level Application and project evidence are received by 11:59pm ET on May 3, 2024. Honor Roll projects will be announced on May 17, 2024.*

WHAT ELSE DO I NEED TO KNOW ABOUT GOLD LEVEL HONOR ROLL?

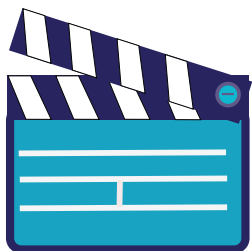
While a club can submit multiple projects, it is only possible for 1 project per school to be highlighted in the Honor Roll. MATHCOUNTS will conduct the Silver and Gold Level prize drawings *after* Honor Roll projects are determined, as a club *cannot* both be highlighted in the Honor Roll and win a prize drawing.

GOLD LEVEL OPTIONS

Choose from 3 different Gold Level Project options. Find a brief summary below, and get details on each at www.mathcounts.org/gold.

MATH IN ART

Club members will recreate a famous painting, incorporating at least 2 math elements. Club members will then write a description of their recreation, specifically detailing the math elements included and the materials used.



INSTRUCTIONAL VIDEO

Club members will create an instructional video on a math concept of their choosing. They must teach this concept by solving 2 or more MATHCOUNTS problems in the video and assuming the audience has no prior knowledge of the topic.

SERVICE PROJECT

Club members will complete a math-based service project. What you choose to do is flexible and up to the club leader to ultimately decide. Your club could organize and run a school math night, for example. The goal is to incorporate math while giving back.



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