

OJH Math Competition Team  
2025-2026 Competitions and Bonus Points

If you have a conflict and can't attend practice on a day we have a competition, let me know in advance. Usually, I can arrange another opportunity for you to participate. If you don't tell me until after the competition, it's too late.

**Math Olympiad (MOEMS)**

- 5 contests, 1 per month November – March
- Taken during normal practice time (Wednesdays at lunch)
  - 12 Nov, 10 Dec, 7 Jan, 18 Feb, 18 Mar
- 20 minutes/5 questions
- A student's final MOEMS score is the sum of their scores from all 5 competitions.
- All students can participate
- MOEMS mails out certificates and awards based on what percentile students finish
- <https://moems.org/>

**AMC 8 – Mathematics Association of America (MAA)**

- After school between 22 and 28 January (Date TBD)
- 40 minutes/25 multiple choice questions
- If students continue with math competitions, they will have the opportunity to take the AMC 10 and AMC 12 in high school.
- All students can participate
- MAA provides certificates based on individual scores and team score (top 3 students)
- <https://maa.org/student-programs/amc/>

**AMC 10 – Mathematics Association of America (MAA)**

- Some 8<sup>th</sup> graders who are currently taking Geometry may have the opportunity to take the AMC 10 November 5<sup>th</sup> or November 13<sup>th</sup>
- The test is designed for 10<sup>th</sup> graders, so it will be tough, but taking it in 8<sup>th</sup> grade will give students an extra opportunity to practice it.
- The AMC 10 is first step in qualifying for the USA team in prestigious international mathematics competitions
- <https://maa.org/student-programs/amc/>

### University of Cincinnati Math Bowl

- Saturday, 1 March 2025 at University of Cincinnati
- Two 1-hour contest periods, short answer questions
- Students compete in teams of 2 to 5 students in categories based on what math class they are currently taking
- Other schools will be there
- All students can participate
- Teams receive certificates based on how judges score their answers
- <https://www.artsci.uc.edu/natural-sciences/math/news-events/mathbowl.html>

### MathCounts (School, Chapter, State, and National)

<https://www.mathcounts.org/programs/mathcounts-competition-series>

#### MathCounts School Competition

- 14, 21, and 28 January during normal practice time
- MathCounts has 3 elements
  - Sprint round (14 Jan 2026) – 40 minutes/30 multiple choice questions
  - Target round (21 Jan 2026) – 4 sets of 2 questions. 6 minutes to complete each pair
  - Team round (28 Jan 2026) – 4 students work together on 10 questions for 20 minutes
  - Individual scoring – Sprint round + 2 x Target Round
    - Highest sprint round score is the tie breaker
  - Team Scoring – Individual scores/4 + 2 x Team Round
- All students can participate
- MathCounts sends awards for highest scoring individuals
- The School Competition is part of determining who competes at the Chapter Competition

#### MathCounts Chapter Competition

- Saturday, 7 February (tentative) at Wright State
- Same components as the school competition. All 3 components are taken on the same day
- The end of the day is Countdown round: a live bracket-style tournament in front of the audience
- Expect about 15 schools and 150 students
- Each school can only take 14 students
  - We may also be allowed to take some alternates
  - See section below on how students will be selected

- The students selected to go to Chapter MathCounts will have non-optional bonus work and may have 1 or 2 extra practices
- The Chapter will award trophies
- Our goal is to qualify for the state competition
  - The top 2 or 3 teams will qualify to compete at the state competition (the exact number is not determined until after registration closes)
    - The 4 students on each of those teams will compete at the state competition in both the individual and team competitions
  - The top 4 individuals not on a qualifying team also get to go to the state competition

### MathCounts State Competition

- A Saturday in March (TBD), Columbus State Community College
- Same components as the Chapter competition
- 28 Teams and 188 students participated last year
- We can only take the students that qualify at the Chapter competition
- The state competition will hand out trophies
- The 4 scoring students at the Chapter competition represent Ohio at the National competition, 10-11 May, Washington DC

### Selecting OJH students will attend Chapter MathCounts

Students can be selected to attend Chapter MathCounts through performance on the school competition or through bonus points

- School MathCounts competition (14, 21, and 28 January during normal practice time)
  - The top 8 students from our school MathCounts competition will get to go. The top 4 will be the "A" team
  - If you are going to miss a part of the competition and want to compete for a spot on the OJH Chapter MathCounts team, tell Coach Ben in advance! If you are home from school sick that day, email me in the morning.
  - Ties will be broken based on performance on other competitions (MOEMS and possibly AMC 8)
    - If there's still a tie, bonus work will be the tie breaker
- Bonus Points
  - The next 6 spots will go to the students who weren't in the top 8 and did the most bonus work through 21 Jan 2026
  - Students qualifying through bonus points must have at least 4 bonus points.
  - To qualify via bonus points, a student needs to have participated in the School Sprint Round (14 Jan 2026) and/or the School Target Round (21 Jan 2026).

- If there's a tie, performance on the school MathCounts competition will be the tie breaker
- After applying these criteria, if there are spots left, coaches will allocate those spots based on their discretion.

### Bonus Points

- Bonus points will primarily be earned by completing Bonus Work
- Bonus work will be announced and handed out at practice
- If possible, the solutions to the bonus work will be provided at the same time as the problems
- To get the most out of the bonus work, students should attempt the problems without looking at the solutions. When they get stuck, they can refer to the solutions to understand how to solve the problem. After they complete the problems, they should compare their answers to the solutions to understand how to solve any problems they missed.
- The coaches do not grade or score bonus work because it is expected that the students have already compared their answers to the solutions
- Bonus work is due the week after it is provided, unless otherwise specified
  - There is a 1-week grace period to turn in bonus work (you can turn it in 2-weeks after it is assigned)
- To receive credit for bonus work, students need to attempt all of the problems and show their work
- There will be a few other opportunities to earn bonus points (including the prime number and Pythagorean triples quiz after Thanksgiving)
- Students will receive a reward (usually candy) when they earn bonus points
- To get credit for bonus work, show your completed bonus work to Coach Ben at practice