

# COMAP's 2023

# HiMCM<sup>®</sup> & MidMCM CONTEST

## November 1-14, 2023

Is your team registered yet?

The registration deadline is

November 1, 2023 at 2:00 pm EST

Register today:

[www.himcmcontest.com](http://www.himcmcontest.com)

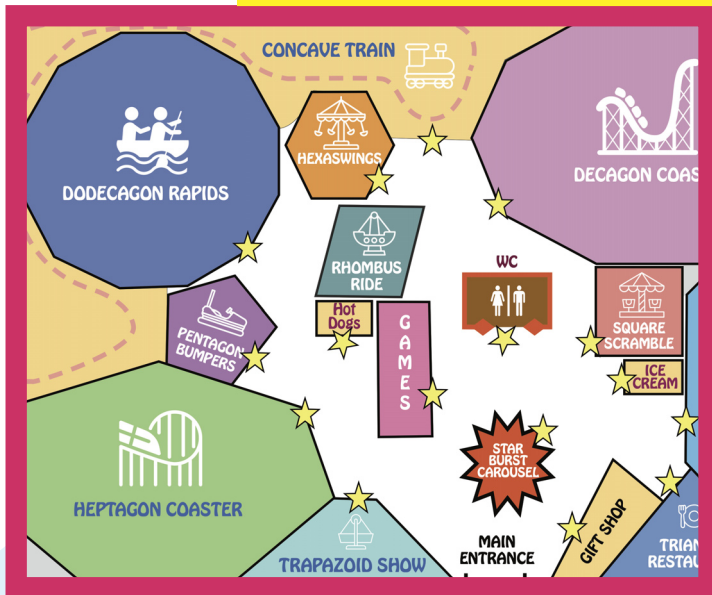
COMAP'S High School Mathematical Contest in Modeling (HiMCM) and Middle Mathematical Contest in Modeling (MidMCM) are international contests designed to provide high school and middle school/level students with the opportunity to work as team members to engage and improve their modeling, problem solving, and writing skills. Contest problems are accessible using the mathematics taught at the respective levels of the contests.



Questions? Email: [himcm@comap.com](mailto:himcm@comap.com)

 Follow @COMAPMath for real-time contest info.

Contest Sponsors:   



## Dear Colleague:

COMAP has offered challenging international mathematical modeling contests for over 40 years! In 2023, we will celebrate our 26<sup>th</sup> High School Mathematical Contest in Modeling (HiMCM)<sup>®</sup>. In 2021, we added MidMCM as a new contest for Middle School/Level students. We invite your school's participation in these modeling contests. Both contests provide students an opportunity to work as a team to be creative, improve mathematical problem-solving skills, develop communication and writing proficiency, and have fun applying mathematics to a real-world problem.

Student teams of up to four students from the same school work on a challenging real-world problem during the contest period of November 1–14, 2023. Advisors (teachers or staff members) guide teams and submit each team's work to COMAP for judging by a diverse group of educators and professionals from fields including mathematics, education, science, and industry.

Form a team (or teams) at your school. Integrate the contest into your mathematics class and enjoy the modeling experience. Register your teams by 2:00 pm EST on November 1, 2023.

We look forward to your students' participation in this exciting and challenging opportunity.

Best wishes,

Ben Galluzzo  
HiMCM Director

Kayla Blyman  
MidMCM Director

The HiMCM is open to all secondary school students.

Detailed information is available online at:  
**[www.himcmcontest.com](http://www.himcmcontest.com)**.

The MidMCM is open to all middle school/level students less than 14½ years old on the start date of the contest. Detailed information is available online at: **[www.midmcm.com](http://www.midmcm.com)**.

**CONTEST FEES:** \$100 per team.  
Fees must be paid at online registration.

**Contest Website:** The contest website contains step-by-step registration and contest process guidelines, as well as requirements, tips, judging criteria, and solution submission procedures.

**Contest Dates and Times:** On Wednesday, November 1, 2023 at 3:00 pm EST, COMAP will post the contest problems on the contest website. Once the problems are posted, student teams require no additional materials beyond what is provided on the website. COMAP will never ask you to purchase or obtain additional information for the contests.

Teams must accomplish all work during the contest period that begins at 3:01 pm EST on Wednesday, November 1, 2023, and ends at 8:00 pm EST on Tuesday, November 14, 2023.

Advisors must ensure teams make no changes to their solution papers after the 8:00 pm contest end time. All papers must be emailed and received at COMAP by 9:00 pm EST on November 14, 2023

**Role of the Advisor:** The advisor informs students about the contests, encourages the formation of teams, and registers those teams. Advisors guide and prepare their students prior to teams beginning the competition.

Advisors ensure that students have access to materials and/or equipment they need. Advisors confirm guardian consent forms are signed prior to the contest.

During the competition, students must address their chosen contest problem and develop all the substantive analysis without the help of their advisor or any person outside of their team.

**Registration of Teams:** All teams must register online on or before November 1, 2023 at 2:00 pm EST.

Each team may consist of up to four students who are enrolled in the same school at the time of the contest.

There is no limit to the number of teams an advisor can sponsor, or a school may enter.

You do not need to name student team members at the time of registration, but you must determine teams prior to the start of the contest.

**Contest Problems:** HiMCM teams choose one of two modeling problems. MidMCM teams choose either the MidMCM problem or one of the two HiMCM problems. COMAP will post all problems on the Website at 3:00 pm EST on November 1, 2023.

COMAP designs problems to be open-ended and so are unlikely to have a unique solution. Sample problems from other years are available at:

[www.mathmodels.org](http://www.mathmodels.org).

**Team Solutions:** Participants may use the Internet, library resources, available technology (e.g., software, computers, calculators), as well as any other inanimate sources to complete their solution.

Teams should focus attention on clarity, analysis, and design of the solution. The narrative section of the solution papers must be typed and in English and sent as a .pdf file. Partial solutions are acceptable.

**HiMCM and MidMCM are all electronic submission contests!**

**Solution Submission via email:** Each team submits an electronic copy of its solution paper by email to [solutions@comap.com](mailto:solutions@comap.com). Any team member or the advisor may submit this email.

COMAP must receive your emailed solution file on or before the submission deadline of 9 pm EST on November 14, 2023. Failure by a team to submit your team's solution by this deadline will result in disqualification.

**Results:** COMAP will complete final judging for both the HiMCM and the MidMCM in January 2024 with results announced on COMAP's website by early February.

COMAP recognizes solutions in the categories of Outstanding, Finalist, Meritorious, Honorable Mention, Successful Participant, or Unsuccessful.

Please register only the teams that will participate. Registration fees are not refundable. All HiMCM and MidMCM teams earning a Successful Participant or above designation will receive certificates and a press release via email in January 2024.

Selected Outstanding teams will have their solution papers (or portions their solution papers) published in Consortium. Unabridged versions of all Outstanding papers, as well as HiMCM and MidMCM judges' commentaries, are available to **Mathmodels.org** members.

For more detailed instructions and further information, please visit the HiMCM/MidMCM Websites at: [www.himcmcontest.com](http://www.himcmcontest.com) and [www.midmcm.com](http://www.midmcm.com).

## Contest Directors

### HiMCM

Ben Galluzzo  
COMAP, Inc.

### MidMCM

Kayla Blyman  
Saint Martin's University

### Executive Director

Solomon Garfunkel  
COMAP, Inc.

The Consortium for Mathematics and Its Applications (COMAP) is dedicated to the improvement of mathematics education for students of all ages. COMAP publishes a wide variety of innovative curriculum materials in print, video, and multimedia formats. COMAP's school level contests include the High School Mathematical Contest in Modeling (HiMCM)<sup>®</sup>, the Middle Mathematical Contest in Modeling (MidMCM), and the International Mathematical Modeling Challenge (IM<sup>2</sup>C)<sup>®</sup>.

For more information about COMAP products and contests visit [www.comap.com](http://www.comap.com).



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