

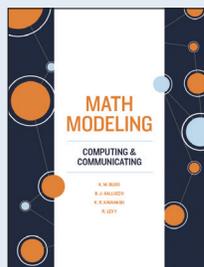


PREPARE to MODEL!

FREE RESOURCES at m3challenge.siam.org/resources

Read the Modeling Handbooks

Written by M3 problem writers and judges, *Math Modeling: Getting Started and Getting Solutions* is a terrific introduction to the modeling process. *Math Modeling: Computing & Communicating* goes beyond the basic process of mathematical modeling to technical computing using software platforms and coding.



Practice your skills

Sample and practice problems will help you prepare for the Challenge problem.

Watch the Math Modeling video series

Seven 2–3 minute episodes that provide instruction and insight about each component of the modeling process.

Access free software

You can request MathWorks' MATLAB or Wolfram software for free! Look for the “Access Software” and “Learn Technical Computing” tabs under RESOURCES on the website. Use of software, coding, and technical computing is not required to participate or win, but using them makes you eligible for the M3 Challenge Technical Computing Award.

Teach Modeling using the GAIMME report

“Guidelines for Assessment and Instruction in Mathematical Modeling Education” (GAIMME) is a great resource for teacher-coaches!

Peruse the “Tips and Guidance” webpage

Suggestions from past participating students, coaches, judges, and from organizers of the Challenge.

Technical Computing?

Teams that use a programming platform other than spreadsheets (Excel or other) in an outstanding way will be eligible for an additional distinction—the M3 Challenge Technical Computing Award.

[Learn Technical Computing](#) is a tab under RESOURCES on the website where you can get direction on using MATLAB software to possibly qualify for the technical computing award.

More Winning Strategies

Check out the archives
m3challenge.siam.org/archives

Archives feature past Challenge problems, winning solutions, judge perspectives, and presentation videos organized by year.

Go on a YouTube binge
youtube.com/user/SIAMConnects

Visit “M3 Challenge” playlist on SIAM’s YouTube page to familiarize yourself with all aspects of the Challenge.

TEACHERS AND STUDENTS: Take steps to ensure greater success in M3 Challenge!

**CHALLENGE WEEKEND:
MARCH 3–6, 2023**



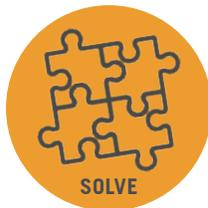
MathWorks Math Modeling Challenge

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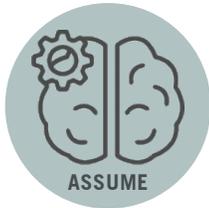
\$100,000+ in SCHOLARSHIPS



JUSTIFY



SOLVE



ASSUME



ANALYZE



DEFINE



COMMUNICATE



- Free and 100% internet-based
- High school juniors and seniors in U.S. and sixth form students in U.K.
- Form a team of 3–5 students with one teacher-coach
- Choose your 14-hour worktime and location
- Submit a solution to the open-ended modeling problem
- Additional prizes available for teams submitting code
- Finalists get all-expense paid trip to New York City

Register teams by February 24, 2023
 Challenge weekend: March 3–6, 2023

M3Challenge.siam.org



During Challenge weekend, teams are given 14 hours to use the math modeling process to represent, analyze, make predictions about, and provide insight into an open-ended, real-world problem. High schools in the U.S. (including territories and DoDEA) and schools with sixth forms (age 16–19) in England and Wales are eligible to participate in M3 Challenge 2023.

The National Association of Secondary School Principals has placed this program on the NASSP National Advisory List of Student Contests and Activities since 2010.



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