

MathWorks Math Modeling Challenge (M3 Challenge) 2022

Ready to publish blurbs

Most abbreviated blurb is first, followed by a few with more details or different spin. Please find related downloadable images at:

<https://m3challenge.siam.org/challenge/shareM3>

1. (62 words; 400 characters)

MathWorks Math Modeling Challenge (M3 Challenge) is a free online contest for high school juniors and seniors and sixth form students. Teams of 3-5 students solve an open-ended problem about a real issue in 14 hours. Scholarships totaling \$100,000 (> £75,000) will be awarded in 2022; the competition has given \$1.65 million+ to date. For rules, resources, and to register visit *M3Challenge.siam.org*.

2. With deadlines/dates: (128 words; 828 characters)

MathWorks Math Modeling Challenge (M3 Challenge) is a free online contest for high school juniors and seniors and sixth form students. Teams of 3-5 students solve an open-ended problem about a real issue in 14 hours during **Challenge weekend, February 25–28, 2022**. Teams work at the location(s) of their choice, in person or using online collaboration tools. Scholarships totaling \$100,000 (> £75,000) will be awarded in 2022; the competition has given \$1.6 million+ to date. Free access to math modeling handbooks, videos, and sample problems in the website's "Resources" tab help teams prepare for success. Sign up to "get alerts" to ensure you don't miss important information. For rules, resources, and to **register your team(s) by February 18, 2022** visit [M3Challenge.siam.org](https://m3challenge.siam.org) or email your questions to M3Challenge@siam.org.

3. (155 words; 998 characters)

MathWorks Math Modeling Challenge (M3 Challenge) is an Internet-based applied math competition for high school juniors and seniors and sixth form students (age 16-19) that is known as a transformative experience that inspires participants to pursue STEM majors and careers. Working in teams of three to five, participants have 14 hours to solve an open-ended math-modeling problem focused on a real issue. The contest is a program of Society for Industrial and Applied Mathematics (SIAM) and is sponsored by leading software developer MathWorks; it is free and open to eligible students in the United States, England, and Wales. Top teams this year will be awarded \$100,000 (~ £75,000 GBP) in scholarships toward the

pursuit of higher education. M3 Challenge has given more than \$1.65 million+ in scholarships to date and has been listed as an approved contest by the National Association of Secondary School Principals since 2010. For rules, resources, and to register visit *M3Challenge.siam.org*.

4. Longer, with bullets, more specifics: (214 words; 1480 characters)

MathWorks Math Modeling Challenge (M3 Challenge) is a free online math scholarship contest for teams of high school juniors and seniors and sixth form students. It culminates annually with an in-person final event in New York City with all expenses paid for finalist teams.

Some other specifics:

- Registration and participation are completely FREE – there is NO BARRIER to participation other than having internet access. MathWorks, as title sponsor, funds the key elements so that the Challenge can take place at no cost to students or schools.
- M3 Challenge has taken place completely online every year since 2006. Teams have always been able to work virtually using online collaboration tools, adding to the contest’s “real-life” aspect.
- One big problem is posed every year for the Challenge. It is unknown to teams until they login and download the PDF on Challenge weekend to start their 14 hours of work time. The problem typically has a socially conscious theme – equity, the environment, conservation or recycling, energy use, health, and other topics that young people care about and want to think about and work on. The problems are open-ended and are therefore subject to interpretation and perfect for brainstorming before quantifying the elements. Participation is a transformative experience for many.

For rules, resources, and to register visit *M3Challenge.siam.org*.

5. From SIAM... (143 words; 994 characters)

The mission of Society for Industrial and Applied Mathematics (SIAM) is to build cooperation between mathematics and the worlds of science and technology through publications, research, and community. Learn more about applied math, math modeling and SIAM at www.siam.org.

As part of its array of programs, SIAM organizes MathWorks Math Modeling Challenge (M3 Challenge), an award-winning, free, Internet-based competition that inspires students to pursue STEM majors and careers. Working in teams, students solve an open-ended problem in 14 hours. Scholarships totaling \$100,000 are awarded each year. Extra credit awards are given for outstanding (optional) code. More than \$1.65 million in scholarships has been given to date. M3 Challenge gives students the opportunity to experience first-hand the vital role applied

math plays in society and demonstrates its value in gaining insight into big multi-faceted world problems. Free resources are available. Learn more at m3challenge.siam.org.