MMSA YEAR IN REVIEW

In 2023, the Maine Mathematics & Science Alliance (MMSA) supported and empowered teachers, schools, districts, and out-of-school educators through our innovative resources and learning opportunities. **Most importantly, we partnered with organizations and educators to inspire more young people than ever, sparking their aspirations of becoming the innovators and workforce of tomorrow.**

INCREASING ACCESS TO STEM EDUCATION

During the 2022-2023 school year, MMSA's impact was far reaching. Our incredible team of specialists worked across the nation to increase equitable access to STEM education as well as to elevate Maine's rural STEM voice.

- Partnered with **400+ MAINE SCHOOLS & COMMUNITIES**
- Served **1,700+ EDUCATORS**
- Worked with **1,287 IN-SCHOOL TEACHERS**
- Supported **400+ AFTER-SCHOOL EDUCATORS**
- Impacted approximately **30,000 YOUTH**

> " I am so thankful that this training was offered at my school. I am a far better teacher because of MMSA!
>
> – Dannietta Thompson
> Captain Albert Stevens School
> Belfast, Maine

FUNDERS & SPONSORS

The following organizations and foundations provided visionary support for MMSA's programs and special projects last year. MMSA is also grateful for the critical funding provided by our science fair sponsors.

BioME
Broadcom Foundation
Margaret E. Burnham
   Charitable Trust
Cross Insurance Agency
DataClassroom
Leonard C. & Mildred F.
   Ferguson Foundation
Harold Alfond Foundation

Horizon Foundation
IEEE - Maine
Kennebec Savings Bank
Maine Technology Institute
National Science Foundation
Onion Foundation
Pisces Foundation
Regeneron
SEEDS

Elmina B. Sewall Foundation
Society for Science
Spirit Aerospace
STEM Next
Systems Engineering
Texas Instruments
UNUM
WEX

MMSA

2023 MMSA PROJECT HIGHLIGHTS

EMPOWERING EDUCATORS

PLACE-BASED SCIENCE LEARNING

The PeBLES[2] project designed and delivered a year-long professional development program to help teachers localize a phenomenon-driven unit in fourth-grade science. Additionally, the iWonder project and Maine State Science Fair empowered educators to create student-developed projects supported by research scientists.
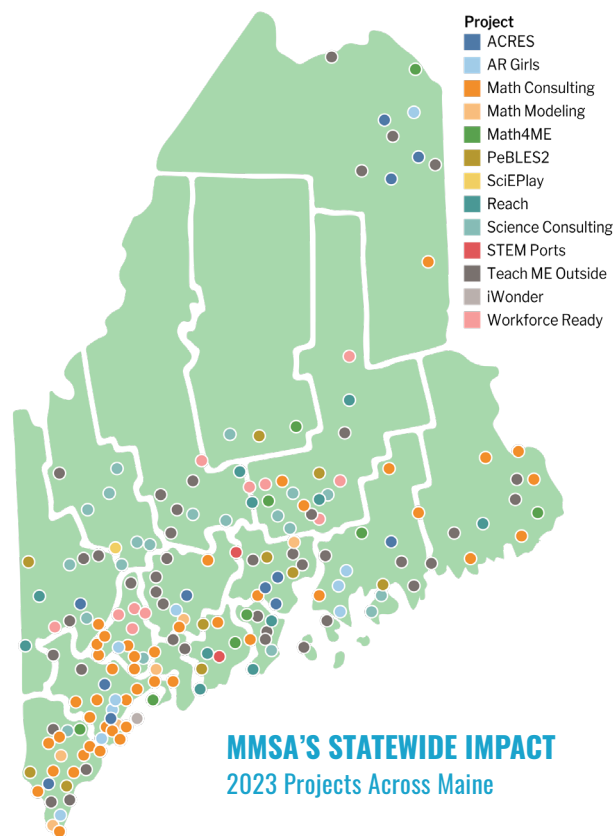
MATH CONSULTING

MMSA's Math consulting team supported nearly 600 Maine educators by providing comprehensive coaching, technical assistance, and professional learning opportunities.

COMPUTATIONAL THINKING

Leveraging their vast professional learning resources, the iWonder project facilitated a significant increase in teachers' and students' understanding of computational thinking.

INFORMAL STEM EDUCATION

By enhancing STEM facilitation skills of hundreds of educators across 35 states and growing a network of coaches, the ACRES project vastly expanded access to informal STEM education professional development opportunities.

Project
- ACRES
- AR Girls
- Math Consulting
- Math Modeling
- Math4ME
- PeBLES2
- SciEPlay
- Reach
- Science Consulting
- STEM Ports
- Teach ME Outside
- iWonder
- Workforce Ready

MMSA'S STATEWIDE IMPACT
2023 Projects Across Maine

ADVANCING EDUCATIONAL PRACTICES

RESEARCH-IDENTIFIED NEEDS

Teach ME Outside gathered 900 responses on the state of environmental education in Maine. MMSA uses these real-time statistics to develop data-informed professional learning supports, advocate for programming, and inform policy changes.

EARLY CHILDHOOD LEARNING

The SciEPlay project partnered with Bowdoin College and Samara Early Learning to design professional learning modules for educators to identify critical science and engineering practices in children's play. These modules have been implemented by 12 Maine PreK and K educators around the state.

COMPUTER SCIENCE INTEGRATION

From sharing emerging AI and robotic tools to teaching foundational Computer Science practices, the Workforce Ready 2030 project focused on empowering educators to become leaders in the CS Integration field. MMSA also partnered with educators, administrators, and businesses to explore ways to integrate CS into the K-8 rural curriculum.

LEADING THE STEM COMMUNITY

THE FUTURE OF SCIENCE FAIRS

MMSA supported 40 teachers via 1:1 coaching, workshops, classroom visits, and other resources to prepare their 268 students to share their work at the Maine State Science Fair and Maine Middle School Science & Engineering Fair.

NGSS CELEBRATION

MMSA hosted the first-ever "Science Summit" to celebrate the 10th anniversary of the Next Generation Science Standards. The sold-out event brought together nationally recognized researchers, school leaders, and educators from across Maine.

COMMUNITY PARTNERSHIPS

Teach ME Outside ran five "Building a Culture of Teaching Outside" workshops across the state, which also served to connect teachers with potential community partners in their regions.

Learn more about MMSA & our offerings for educators at MMSA.org