



A Partial List of Online and Community STEM Resources

MINNDEPENDENT does not endorse or recommend any organization, product, or professional association. Contact Beth Murphy, MINNDEPENDENT STEM Program Manager, at bmurphy@minndependent.org with suggested additions.

In addition to her work with MINNDEPENDENT, Beth also works directly with schools and nonprofits as a consultant to guide planning and implementation of exceptional STEM learning experiences. Visit [Beth Murphy Consulting](http://BethMurphyConsulting.com) to learn more or contact Beth at bethmurphyconsulting@gmail.com to schedule a free consultation for your school.

ACADEMIC STANDARDS & RELATED RESOURCES

[A Framework for K-12 Science Education](#)

[Framework for 21st Century Learning](#)

[Getting Ready for the New Minnesota Science Standards online course](#)

[ITEEA Standards for Technological and Engineering Literacy](#)

[Matrix of Crosscutting Concepts in NGSS](#)

[MN Department of Education - STEM](#)

[MN Academic Standards for Science](#)

[MN Academic Standards for Mathematics](#)

[Minnesota STEM Teacher Center](#)

[Science & Engineering Practices in K-12 Classrooms](#)

[The Next Generation Science Standards](#)

[US Department of Education – STEM & Computer Science](#)

COLLEGES & UNIVERSITIES

Hamline University: [Center for Global Environmental Education \(CGEE\)](#)

[National Institute for STEM Education](#)

University of Minnesota:

[BrainU: The Neuroscience Teacher Institute](#)

[Monarch Lab](#)

[Educator Development](#)

[STEM Center Resources](#)

University of St. Thomas:

[Center for Engineering Education \(CEE\)](#)

[Curriculum and Teaching Resources: STEM](#)

Minnesota State:

[Minnesota State Centers of Excellence](#)

MUSEUMS & EDUCATION PROVIDERS

[The Bakken Museum](#): inspiring a passion for innovation to make the world a better place

[Bell Museum](#): Minnesota's natural history museum with a mission to ignite curiosity and wonder, explore our connections to nature and the universe, and create a better future for our evolving world

[Climate Generation: A Will Steger Legacy](#): empowering individuals and their communities to engage in solutions to climate change

[Code Savvy](#): striving to make kids and teens more code-savvy through creative educational programs and services

[createMPLS](#): bringing hands-on technology programs to k-12 students

[High Tech Kids](#): nonprofit that supports Minnesota *FIRST*® LEGO® League Junior, *FIRST*® LEGO® League, and *FIRST*® Tech Challenge programs

[MN Agriculture in the Classroom](#): Free curriculum, educational resources, grants, outreach and PD opportunities to advance STEM education.

[MN Department of Transportation](#): Aeronautics and Aviation Education

[Minnesota HOSA](#) - Offers students in middle school through college opportunities to volunteer, lead, compete, and explore healthcare careers.

[Minnesota Zoo](#): Educator resource page

[Project Scientist](#): Creates joyful and engaging experiences in STEM

[Science from Scientists](#): providing exciting, informative and engaging programming by practicing scientists

[Science Museum of Minnesota](#): hands-on exhibits, dinosaurs, Omnitheater as well as field trips, outreach programs, and teacher professional development

[Science Museum of Minnesota Lending Library/Teacher Resource Center](#): membership-based teacher resource to

borrow instructional, hands-on STEM materials

[**World Savvy:**](#) educating and engaging youth to learn, work, and thrive as responsible global citizens

[**The Works Museum:**](#) hands-on children's museum that focuses on technology and engineering

[**We Share Solar:**](#) hands-on solar education that inspires students to light the world

PROFESSIONAL ASSOCIATIONS

[**Computer Science Teachers Association, Gopher State Chapter \(MN\)**](#)

[**Minnesota Academy of Science**](#)

[**Minnesota Council of Teachers of Mathematics**](#)

[**Minnesota Science Teachers Association**](#)

[**Minnesota Technology & Engineering Educators Association**](#)

[**National Science Teaching Association**](#)

ADDITIONAL RESOURCES

[**3M STEM and Skilled Trades:**](#) Visiting Wizards, Tech Talks, 3M Twist Program and STEP- Science Training Encouragement Program

[**Accelerate Learning/STEMscopes:**](#) STEM focused curriculum

[**Catapult Learning:**](#) K-12 STEAM curriculum based on the engineering design process

[**Centers for Disease Control and Prevention:**](#) K-12 teacher resources

[**Code.org:**](#) non-profit dedicated to growing computer programming education.

[**Edutopia:**](#) resources for teachers including project-based learning and integrated studies

[**Engineering byDesign™ Program,**](#) PreK-12 standards-based curriculum developed by the International Technology and Engineering Educators Association (ITEEA)

[**Engineering is Elementary:**](#) developed by the Museum of Science, Boston

[**Engineer's Playground:**](#) information, products and services about engineering and STEM for schools and parents

[**Fenworks:**](#) Pioneering Esports and Drone Racing for Schools

[**Full Option Science System \(FOSS\)®:**](#) K-8 science curriculum from the Lawrence Hall of Science, University of California, Berkeley

[**getSTEM of Minnesota,**](#) a web portal designed to connect

Minnesota educators with science and technology businesses

[**Girls That Code:**](#) FREE summer programs and after-school clubs for girls. Learn to code

[**Great Explorations in Math and Science \(GEMS\):**](#) from the Lawrence Hall of Science, University of California, Berkeley

[**Growing Green Hearts:**](#) Resources to help students learn to care for land, air, water, and living things all around us.

[**KidWind:**](#) clean energy curriculum and materials

[**LASER Classroom™:**](#) K-12 tools and resources to teach about light, lasers and optics

[**Maker Education:**](#) whose mission is to create more opportunities for young people to build confidence, foster creativity, and spark interest in STEM and the arts

[**Minnesota Department of Natural Resources:**](#) providing natural resources education

[**Minnesota STEM Ecosystem:**](#) network that strengthens STEM learning pathways in MN

[**Minnesota Tech for Success:**](#) creating digital equity for students in STEM

[**National Center for Technological Literacy:**](#) programs and resources to raise awareness and understanding of engineering

[**Next Wave STEM:**](#) Powering STEM education through emerging tech

[**Project Lead the Way \(PLTW\):**](#) bringing real-world learning to PK-12 classrooms

[**Raspberry Pi Foundation:**](#) Enabling all young people to realize their full potential through computing.

[**Sadlier:**](#) K-12 education resources

[**Smithsonian Science Education Center:**](#) transforming K-12 Education Through Sciences. [**FREE curriculum**](#) for K-8 covering life, earth, and physical sciences with technology.

[**SciGirls:**](#) evidence-based practices in STEM education for girls

[**SciMathMN**](#) - Minnesota STEM Teacher Center

[**Starbase Minnesota:**](#) Educating and inspiring youth in STEM

[**SmartLab:**](#) **Career connected STEM ecosystem that equips today's students for tomorrow's challenges**

[**STEM Supplies:**](#) STEM supplies designed to immerse students in STEM/STEAM principals and connect their learnings to the real world

[**TeachEngineering:**](#) digital library of standards-based engineering content for K-12

[**Teaching Channel:**](#) Online STEM Courses for Educators

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[Try Engineering](#): engineering resources for students, parents, teachers & school counselors

[Teachers TryScience](#): a collaborative effort between the New York Hall of Science, IBM Corporation and teachengineering.org to provide STEM Lessons/resources for educators, including teacher-contributed lessons

[Vernier Science Education](#): company that provides sensors, software and curriculum to teach science and collect and interpret data

