



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

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

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

[The Next Generation Science Standards](#)

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

[Matrix of Crosscutting Concepts in NGSS](#)

[MN Academic Standards for Science](#)

[MN Academic Standards for Mathematics](#)

[Minnesota STEM Teacher Center](#)

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

[Framework for 21st Century Learning](#)

Colleges & Universities

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

St. Catherine University: [National Center for STEM Elementary Education](#)

University of Minnesota:

[BrainU: The Neuroscience Teacher Institute](#)

[Monarch Lab](#)

[Educator Development](#)

[STEM Center Resources](#)

University of St. Thomas:

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

Minnesota State:

[Minnesota State Centers of Excellence](#)

[Minnesota State Engineering Center 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 at no cost

[Curious Minds](#): providing STEAM education programs for ages 18 months to 12 years

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

[Minnesota Zoo](#): Created by the State of MN, the Minnesota Zoo has a mission to connect people, animals, and the natural world to save wildlife

[Playful Learning Lab](#): working together to create engaging, hands-on experiences for students and educators with a focus on play

[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

Professional Associations

[Minnesota Academy of Science](#)

[Minnesota Council of Teachers of Mathematics](#)

[Minnesota Science Teachers Association](#)

[Minnesota Technology & Engineering Educators Association](#)

[SciMathMN](#)

Learning Communities

[MINNDEPENDENT Member Network](#): A collaboration tool created by MINNDEPENDENT to provide STEM educators with the opportunity to collaborate and learn from each other to advance STEM teaching and learning

Additional Resources

[3M Visiting Wizards](#): 3M wizards showcase interesting and fun science demonstrations and hands-on experiments on a variety of topics

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

[Engineering byDesign™ Program](#), e.g. EbD, 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

[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](#): close the gender gap in technology

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

[H2I Group](#): inspiring science facilities, and accessible STEM labs

[KidWind](#): clean energy curriculum and classroom 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 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 PreK-12 classrooms

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

[Science and Technology Concepts Program™\(STC\)](#): inquiry-based science curriculum for K–10 covering life, earth and physical sciences with technology. Developed by the Smithsonian Science Education Center

[Science Companion](#): curriculum for teachers, by teachers

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

[Spartic](#): a science web and mobile device information service for teens

[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

[Twin Cities Public Television](#): uses television, interactives media and community engagement to advance education, culture and citizenship

[Try Engineering](#): engineering resource 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](#): company that provides sensors, software and curriculum to teach science and collect and interpret data

