

MSU Extension provides learning opportunities and programs from birth to age 19. Our early childhood education programs help build literacy skills and improve school readiness for kids from birth to age 5. Michigan 4-H provides enriching experiences for young people ages 5 to 19.

Michigan 4-H offers a variety of programs designed to help young people learn the critical life skills they will need in order to contribute to their communities as children and adults. It is the largest youth development organization in the state. 4-H provides more than 200,000 young people with experiential learning opportunities that enable them to explore new interests, gain knowledge, enhance their expertise and discover their passion. At the same time they're building confidence, learning the importance of civic engagement, gaining leadership skills and developing a sense of responsibility.

More than 20,000 caring adult and teen volunteers give their time to the Michigan 4-H program.

From after-school programs to summer camps, from short-term special interest groups to yearlong clubs or groups, and from one-on-one mentoring to large group events, there is a 4-H experience for every youth and volunteer. To explore the many Michigan 4-H programs designed specifically to help young people "learn by doing," look for the green four-leaf clover throughout this catalog. (**Note:** While programs not marked with clovers aren't specifically designed for a 4-H audience, they may be open to young people.)

Kettunen Center

Kettunen Center is a full-service conference facility near Tustin, Michigan, that is owned by the Michigan 4-H Foundation. Each year the center hosts a variety of statewide 4-H workshops and events for young people, volunteers and staff. The workshops include arts camp, 4-H volunteer training workshops and project-specific one- to two-day workshops for 4-H youth. In addition to a wide range of 4-H programming, many other MSU Extension retreats, camps, conferences and events are held at Kettunen Center.

Michigan 4-H Children's Garden

Families and young people can explore all that 4-H has to offer through the year-round, hands-on events at the Michigan 4-H Children's Garden on the MSU campus. Events focus on the science of plants and gardening and showcase the diversity of Michigan 4-H programming areas.

Tollgate Education Center

The Tollgate Education Center in Novi is home to many MSU and MSU Extension educational programs, classes and camps. Summer camp offerings include Bees, Bats and Butterflies; Green Science; and Outdoor Adventure. Many one-day workshops and family events are also available. Owned jointly by the MSU College of Agriculture and Natural Resources and the Americana Foundation, Tollgate boasts a working farm, conference facilities, horticulture and natural resources research fields, and a garden.



The 4-H clover next



to a program name indicates that its primary audience is 4-H.



Developing Youth & Communities

When you support MSU Extension 4-H programs, youth participants learn life skills that prepare them for the workforce – especially for highly sought after jobs in science, technology, engineering and mathematics (STEM). Extension programs help children develop early literacy skills that support school readiness. They learn leadership and decision-making skills in 4-H that increase their likelihood of becoming civically active. 4-H'ers demonstrate reduced high-risk behaviors such as drug use, and learn to complete tasks, solve problems and seek any help they might need from peers and adults. 4-H involvement also helps participants avoid or reduce involvement with the court system. This helps ensure more young people succeed in school, attend college and contribute to their communities. More successful young people in communities results in greater tax revenues and consumer spending and increases the likelihood that young people will stay in, or return to, their communities.

Career Preparation

✿ Career Preparation

Young people can explore potential career and educational opportunities through MSU Extension's career preparation activities. MSU Extension also provides educational resources that help young people create plans for reaching their professional goals.

✿ 4-H Exploration Days

This precollege program allows young people ages 11 to 19 to learn new skills and explore career possibilities by participating in a variety of action-filled, hands-on educational sessions and field trips. The three-day conference allows attendees to experience college life on the MSU campus while meeting peers from across the state.

Environmental & Outdoor Education

✿ 4-H Outdoor Adventure Challenge

Young people in this program experience the outdoors through adventures such as hiking, backpacking and canoeing. They also discover their mental, physical and emotional capabilities; build their self-confidence, decision-making, problem-solving and coping skills; and enhance their appreciation for the outdoors. Comprehensive training and leadership development materials are available for adult volunteer leaders.

✿ 4-H Shooting Sports

Youth participants in the 4-H shooting sports program learn firearm safety and responsibility while developing their shooting technique. Participants practice on targets while learning about hunting, natural resources, conservation and outdoor education. They can also compete in statewide competition in many divisions, including target archery, 3-D archery, air rifle, field rifle and skeet shooting.

Global & Cultural Education

✿ Clothing & Textiles

Michigan 4-H'ers explore the world of wardrobes and fashion through clothing and textile projects. They may design their own clothing, use basic sewing skills, develop good consumer skills by making and purchasing clothes, and explore careers in fashion design and clothing manufacturing, marketing and retailing.

✿ Folkpatterns

This program is for young people who are interested in traditions, history, traditional crafts, foods and their own heritage. Folkpatterns participants can explore the culture and history of their families and communities. The word *folkpatterns* was invented to describe the traditions or life patterns of people – the *folk*.

✿ 4-H China Project

This global education program is valuable for both in-school and after-school learning. One popular component of the program is the children's art exchange, in which children from Michigan and Shandong Province in the People's Republic of China trade visual letters (their original artwork). In the process they explore each other's cultures and learn to appreciate diversity. Teaching kits are available to facilitate teaching about China and about making art.

✿ 4-H Interstate Exchanges

As part of interstate exchanges, Michigan 4-H'ers may visit another state to experience the lives of other 4-H members and learn about communities and cultures different from their own. They may also host 4-H'ers from another state who are seeking similar experiences. Through such exchanges, youth participants learn to appreciate diversity while they meet new people and explore the United States.

✿ International Exchanges

International exchanges allow Michigan 4-H'ers to either host or visit a young person from another country. Either way, they have the chance to experience the lives of other global citizens and learn about communities and cultures different from their own. Exchange participants learn to appreciate diversity, meet new people and explore the world. International exchanges range from monthlong to yearlong opportunities.

✿ Performing Arts

Performing art activities allow young people to express their creative side while gaining valuable life skills and confidence in themselves. MSU Extension provides a variety of resources and opportunities to support these activities, which include projects such as dance, theater, music and poetry.

✿ Visual Arts

Visual art activities allow young people to express their creative side while gaining valuable life skills and self-confidence. MSU Extension provides a variety of resources and opportunities to support these activities, which include projects such as photography, woodworking, crafts, filmmaking and other fine arts.

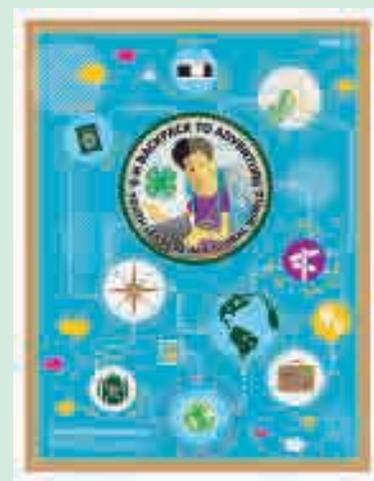
Mentoring

✿ 4-H Mentoring Weekend

A three-day workshop for adults and youth in formally matched mentoring relationships, this event provides an opportunity for mentors and mentees to learn together, further develop their mentoring bonds and have fun. The workshop is held at Kettunen Center and features a variety of educational and recreational sessions for youth mentees. It also offers structured training for adult mentors.



MSUE PUBLICATIONS



4-H Backpack to Adventure: Youth Leaders in a Global World

Designed for adults working with 9- to 19-year-olds, this curriculum helps young people develop the skills and knowledge they need to become leaders in a global environment. Focused on developing character, citizenship, communication, creativity and culture competencies, this resource is appropriate for formal and nonformal educational settings.

bookstore.msue.msu.edu



✿ 4-H Youth Mentoring

Young people are matched with trained mentors who provide friendship and support to help them navigate life and make healthy life choices. MSU Extension's structured mentoring relationships occur in both one-on-one, peer and group mentoring scenarios and are supported by professional mentoring curricula. Professional development is also available for youth mentoring professionals.

Science Literacy

✿ Biological Science

Youth participants explore the broad scope of biological science through real-life scenarios and educational opportunities about life and living processes. They learn about topics such as aquatic science, entomology, apiculture (beekeeping), meat and food science, poultry science, embryology and veterinary science.

✿ Engineering & Technology

Participants explore the broad scope of engineering and technology through real-life scenarios and educational opportunities that allow them to invent, design, create and operate objects. They explore topics such as aerospace, computer and digital technologies, engines, transportation, global positioning systems, geographical information systems, mechanics, robotics and electronics.

✿ 4-H Science Blast in the Class

A curriculum for use in classrooms, after-school programs and clubs or groups, "Blast" offers hands-on lessons on a variety of science topics that will excite young learners. The curriculum features activities related to animal, environmental and plant science, and provides support materials that allow educators to enrich the science learning process.

✿ 4-H Tech Wizards

This program offers small-group mentoring experiences with a focus on science, technology, engineering and math (STEM) skills. In addition to building positive relationships with their mentors, young people learn about STEM topics such as robotics, video editing and rocketry. They apply what they learn by conducting a service project of their choice.

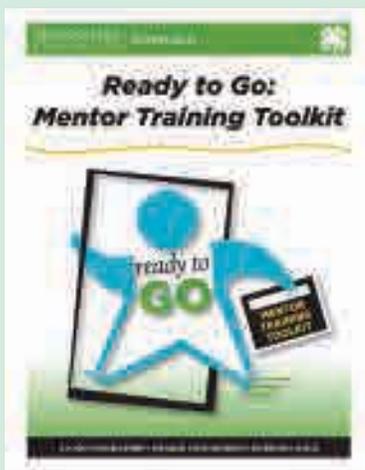
✿ Science for Young Minds

This series of activity sheets and lesson plans is designed to help adults foster interest in and enthusiasm for science in young children. The program equips children with skills such as critical thinking, problem-solving and decision-making.

✿ TechXcite

TechXcite is an after-school or summer program in which youth participants explore engineering, mathematics, science and technology using learning modules that focus on transportation, biomedical technology, green building and solar energy. The program offers hands-on learning opportunities as participants create projects such as bionic arms, solar ovens, solar-powered cars and rain barrels.

MSUE PUBLICATIONS



Ready to Go: Mentor Training Toolkit

This toolkit is designed to help youth mentoring and other youth development programs in training new and existing mentors and other volunteers who will work with young people. The research-based and extensively piloted curriculum contains a highly customizable menu of training activities that can be used to tailor trainings to specific program needs.

bookstore.msue.msu.edu