

**WORLD FOOD PRIZE MICHIGAN YOUTH INSTITUTE
- Meeting Today's Educational Standards and Practices -**

Working towards a common goal, to provide a sustainable and secure global food supply, the [World Food Prize MI Youth Institute](#) (WFPMIYI) bridges interests across English language arts, social studies, culture, economics, sciences, health, and nutrition, as well as agriculture, natural resources, and conservation. The WFPMIYI provides learning opportunities and interactions that are interdisciplinary and foster life and employability skills. There are a variety of educational standards and practices met by participating in WFPMIYI no matter what setting program participants are in – making the program a resource for schools, home school families, career and technical education, 4-H programming and more. This document serves as a summary of broad, major standards and practices with links to the in-depth online materials. Our goal is to review and update website links annually.

Common Career Technical Core Career Ready Practices

Originally created in support of career and technical education, these practices are applicable to all students and young people. WFPMIYI supports ten of the twelve [practices](#):

- Act as a responsible and contributing citizen and employee.
- Apply appropriate academic and technical skills.
- Communicate clearly and effectively and with reason.
- Consider the environmental, social, and economic impacts of decisions.
- Employ valid and reliable research strategies.
- Utilize critical thinking to make sense of problems and persevere in solving them.
- Model integrity, ethical leadership, and effective management.
- Plan education and career paths aligned to personal goals.
- Use technology to enhance productivity.
- Work productively in teams while using cultural global competence.

21st Century Skills

There is a valuable connection between the WFPMIYI and the [21st Century Skills](#) that focus on college and career readiness along with global citizenship. Commonly referred to as the four C's the [21st Century Learning and Innovation Skills](#) are communication, collaboration, critical thinking, and creativity. WFPMIYI is an engaging opportunity supported by MSU Extension educators and 4-H Youth Development staff that can provide that “community partnership” approach to enhance the traditional classroom or learning experience.

Michigan Department of Education Career Development Model

According to the [Model](#), in 2018 several bills were passed in the Michigan Legislature that require school districts to take a more active role in assisting students as they prepare for their future education and careers. The expectation is for some career education at each grade level, K-12. 4-H Youth Development is one of the strategies suggested for students and families to engage with to support career awareness and workforce readiness for Michigan's Career Development Model.

WFPMIYI brings participants, youth development staff members, and MSU faculty and staff together that are doing research, have studied, and are engaged in the work of food sustainability and global issues. Participants make career connections and find networking opportunities throughout the event. During the 2022 WFPMIYI, a future Spartan participant was guaranteed a job with a professor that served as a round table expert once the participant arrived on campus as a student! Whether participants have future interest in agriculture, food and natural resources, arts and communications, health science, human services, or science and technology, WFPMIYI provides a venue to learn and hear about many workforce opportunities related to Michigan's 17 Career Clusters as well as global jobs and careers.

Michigan K-12 Standards for English Language Arts

As a part of the WFPMIYI experience, participants research a country of their choice and a global challenge topic using credible, trustworthy sources of information. Their research, analysis, suggested solutions and bibliography are then turned into a three-to-five-page, 1500–2500-word paper. A variety of materials are available to help young people, and those that mentor them, write the paper, and create the bibliography. There are a variety of sections of the [Michigan K-12 Standards for English Language Arts](#) for 6-12 graders that connect with WFPMIYI. Some of those include:

- College and Career Readiness Anchor Standards for Reading, grades 6-12 (page 35...)
 - Reading Standards for Informational Text
 - Integration of Knowledge and Ideas (page 39...)
- College and Career Readiness Anchor Standards for Writing, grades 6-12 (page 41...)
 - Text Types and Purposes
 - Production and Distribution of Writing
 - Research to Build and Present Knowledge
 - Range of Writing
 - Writing Standards, grades 6-12 (page 42...)
- College and Career Readiness Anchor Standards for Speaking and Listening, grades 6-12 (page 48...)
 - Comprehension and Collaboration
 - Presentation of Knowledge and Ideas
 - Speaking and Listening Standards, grades 6-12 (page 49...)
- College and Career Readiness Anchor Standards for Language, grades 6-12 (page 51)
 - Conventions of Standard English
 - Knowledge of Language
 - Vocabulary Acquisition and Use
 - Language Standards, grades 6-12 (page 52...)
- Standards for Literacy in History/Social Studies, Science, and Technical Subjects, grades 6-12 (page 59 – 66)
 - College and Career Readiness Anchor Standards for Reading
 - College and Career Readiness Anchor Standards for Writing

Michigan K-12 Standards Science

We use science in our lives every day. The process of science and fostering science education is very important to Michigan 4-H. Our WFPMIYI experience gives youth the opportunity to apply science by asking questions or defining problems, analyzing and interpreting data, evaluating information, reflecting on one's own learning, using evidence when constructing explanations, identifying solutions, and communicating information. The middle and high school [Michigan K-12 Standards Science](#) that connect to WFPMIYI are identified below.

Middle School (Grades 6-8)

- Matter and Energy in Organisms and Ecosystems (page 22)
- Interdependent Relationships in Ecosystems (page 22)
- Growth, Development, and Reproduction of Organisms (page 22-23)
- Weather and Climate (page 24-25)
- Human Impacts (page 26)

High School (Grades 9-12)

- Matter and Energy in Organisms and Ecosystems (page 29)
- Interdependent Relationships in Ecosystems (page 30)
- Weather and Climate (page 33)
- Human Sustainability (page 33-34)

Michigan K-12 Standards for Social Science

MSU Extension's 4-H Youth Development is helping to develop youth as current and future leaders by providing programs that instill young people with the knowledge and skills to become positive agents of change. These programs focus on leadership development, civic education and engagement, global citizenship, and cultural competency. WFPMIYI is just one event that engages youth and helps them develop an understanding of other cultures, work collaboratively with people of various leadership styles and personalities, consider solutions in a positive environment, and much more.

Reviewed most recently in 2019, the [Michigan K-12 Standards Social Studies](#) indicate that "the purpose of social studies is to promote the knowledge, skills, intellectual processes, and dispositions required of people to be actively engaged in fulfilling their responsibility of civic participation. As members of a culturally diverse, democratic society in an interdependent world, young people need to learn how to make informed and reasoned decisions for the public good." (page 3)

Social Studies Process and Skills Standards for grades 6-8 (page 50 and 52) and high school (page 87-88) include:

- P1 Reading and Communication – Read and Communicate Effectively
- P2 Inquiry, Research, and Analysis
- P3 Public Discourse and Decision Making
- P4 Civic Participation

In Michigan, social studies include the four disciplines of civics, economics, geography, and history. Broadly, the standards are written to four over-arching dimensions shared here that are referred to as the Arc of Inquiry. For grades 6-8, the Arc of Inquiry is explained on page 51 and for grades 9-12, the Arc of Inquiry is described on page 86.

- Dimension 1: Developing Questions and Planning Inquiries
 - Central to a rich social studies experience is the capability for developing questions that can frame and advance an inquiry. Those questions come in two forms: compelling and supporting questions.
- Dimension 2: Applying Disciplinary Concepts and Tools
 - The four disciplines within social studies provide the intellectual context for studying how humans have interacted with each other and with the environment over time. Each of these disciplines — civics, economics, geography, and history — offers a unique way of thinking and organizing knowledge as well as systems for verifying knowledge. Dimension 2 focuses on the disciplinary concepts and tools students need to understand and apply as they study the specific content described in Michigan’s state standards.
- Dimension 3: Evaluating Sources and Using Evidence
 - Dimension 3 includes the skills students need to analyze information and come to conclusions in an inquiry. These skills focus on gathering and evaluating sources, and then developing claims and using evidence to support these claims.
- Dimension 4: Communicating Conclusions and Taking Informed Action
 - Students should construct and communicate claims for a variety of purposes and audiences. These audiences may range from the school classroom to the larger public community.

Referenced websites:

- World Food Prize MI Youth Institute - <https://www.canr.msu.edu/wfpmiyi/index>
- Common Career Technical Core Career Ready Practices - <https://careertech.org/career-ready-practices>
- 21st Century Skills - <https://www.oecd.org/site/educeri21st/40756908.pdf> and <https://files.eric.ed.gov/fulltext/ED519336.pdf>
- Michigan Department of Education Career Development Model - https://www.michigan.gov/mde/-/media/Project/Websites/mde/CTE/Tool-kits/MI_Career_Development_Model_-_Dec_18_2018_641266_7.pdf?rev=248c9cab6cb74215900af642f10f6387
- Michigan K-12 Standards for English Language Arts - https://www.michigan.gov/-/media/Project/Websites/mde/Literacy/Content-standards/ELA_Standards.pdf?rev=0f76588bc2bd48f89165484fa35d2b31
- Michigan K-12 Standards Science - https://www.michigan.gov/-/media/Project/Websites/mde/Literacy/Content-Standards/Science_Standards.pdf?rev=30bad7c0cbc048ceabb5548669b2d76a
- Michigan K-12 Standards for Social Science - https://www.michigan.gov/-/media/Project/Websites/mde/Academic-Standards/Social_Studies_Standards.pdf?rev=4bab170dd4114e2dbce578723b37ca63

For more information on how to get involved with the World Food Prize Michigan Youth Institute, visit <https://www.canr.msu.edu/wfpmyi/index> or contact:



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