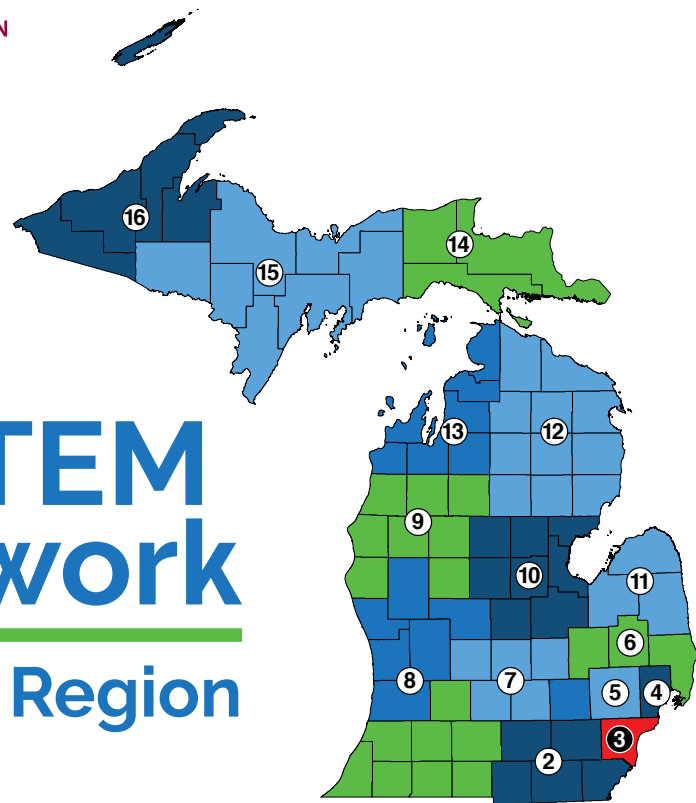


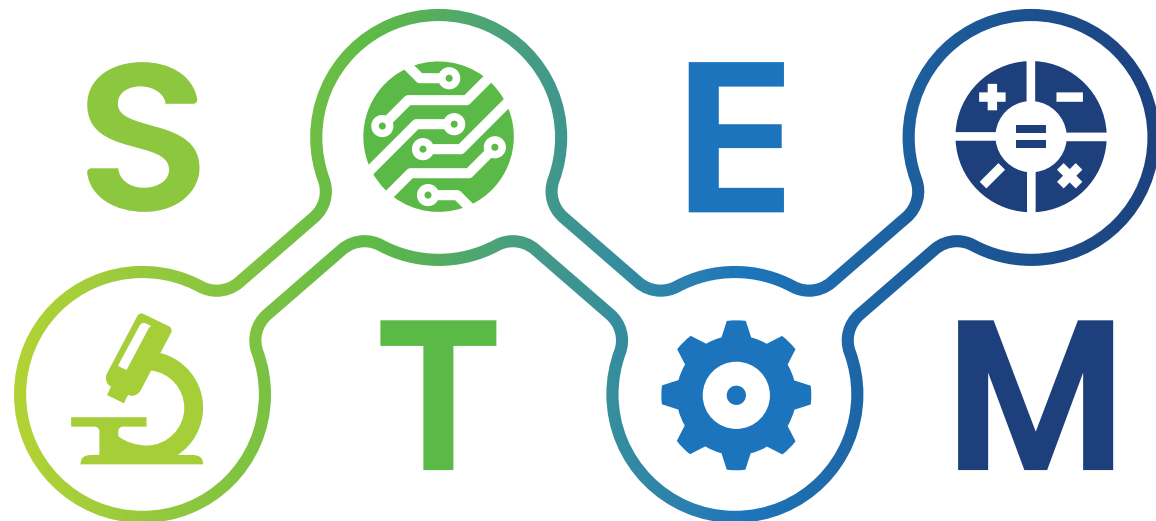


SERVICE LEADERSHIP COLLABORATION EXCELLENCE



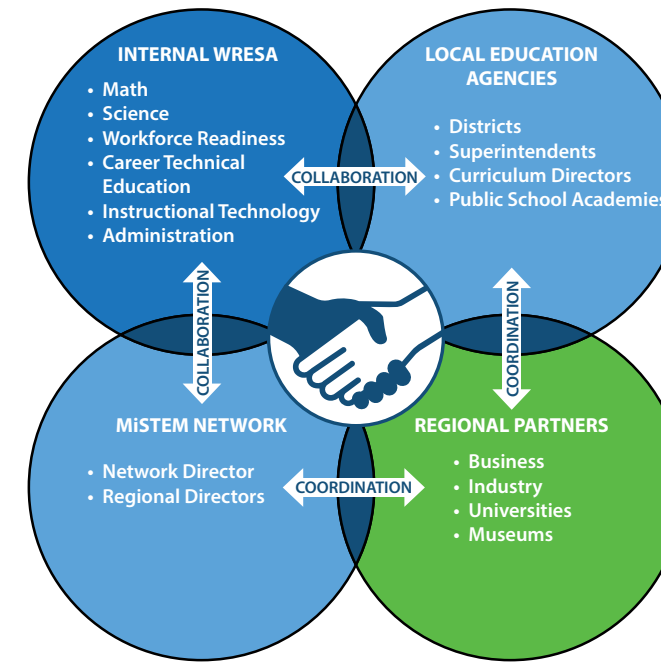
MiSTEM Network

Wayne Region



SCIENCE - TECHNOLOGY - ENGINEERING - MATHEMATICS

WAYNE REGIONAL STEM NETWORK



VISION AND MISSION

Vision:

The Wayne Regional STEM Network envisions a region where every student is engaged in robust and authentic STEM experiences and has the opportunity to enter the regional STEM economy.

Mission:

The Wayne Regional STEM Network will develop and support a cohesive approach to ensure that every student has the opportunity to master the knowledge and skills necessary to thrive in the regional STEM economy.

CONTACT US



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WAYNE RESA BOARD OF EDUCATION

James S. Beri • Mary E. Blackmon • Danielle Funderburg • Lynda S. Jackson • James Petrie

Daveda J. Colbert, Ph.D., Superintendent

STEM WORKFORCE

This past year has seen dramatic changes in education. The Wayne Regional STEM Network (MiSTEM Region 3) has shifted its focus to meet needs. Please see below how our collaborative work has continued in spite of the pandemic. Thank you all for collaborating to support our students and families this year!

CREATE A STEM CULTURE

by building STEM awareness and promoting opportunities

- **MiSTEM Playbook Pilot Grants \$10,000/school**
 - \$10,000 per school was offered as a competitive state-wide grant to support 3P learning (problem/project-based and place-based)
 - Two Wayne County schools awarded
- **What is 3-P Learning?**
- **Ten80 (Drone Competition)**
 - Equipment provided including drones and Arduino-based flight controllers
 - Teacher training provided
 - Regional competitions



EMPOWER STEM TEACHERS

by providing professional development and support

- **Math Recovery**
 - Professional Learning and support for elementary mathematics teachers including materials
 - 21 districts involved
- **Mi-STAR**
 - Middle School science teacher professional learning including curriculum
 - 2021-22 subscriptions—83 to date
 - 2020-21 subscriptions—84
- **NGSX**
 - K-12 science teacher remote professional learning including stipends
 - 168 K-12 science teachers trained virtually this year
 - 980+ Teachers Trained since inception
- **ASU Modeling Instruction**
 - Grades 7-12 science teacher professional learning and curriculum resources
 - Over 160 secondary teachers trained since inception
- **Biology Curriculum Pilot**
 - Five school districts
 - 30 teachers in year long PL experience
 - Each adopted a high quality curriculum resource
 - Follow up PL and virtual adaptation work
- **Wayne County Science Master Teacher Fellowship**
 - 15 Science teachers per year accepted into Fellowship from across Wayne County

INTEGRATE BUSINESS AND EDUCATION

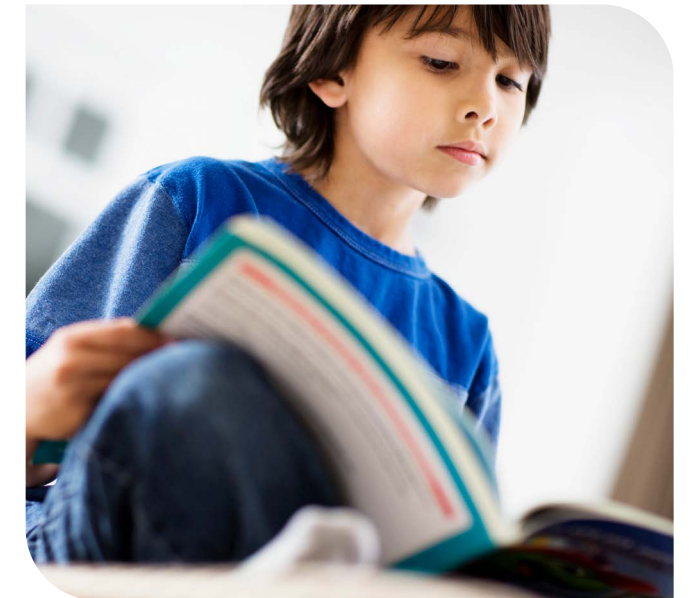
to provide authentic STEM experiences for students and teachers

- **Geospatial Technologies Talent Consortium (GTTC)**
 - Grant sponsored dual enrollment resulting in nine free college credits for students
 - Opportunity for industry certifications
 - Internships provided at regional businesses
 - High school teachers trained as Geospatial Information Systems (GIS) instructors
- **Computer Science Professional Learning**
 - K-12 Computer Science Teacher Professional Learning including curriculum resources
 - **Lt. Governor Garlin Gilchrist hosted a live web-press release** on May 10, 2021 highlighting expansion of AP courses
 - **K-5**, 2017-21 CS Fundamentals = 145 Educators
 - **MS/HS - Free**, includes teacher stipend, curriculum
- 94 Wayne County secondary teacher trained since 2017
- Over 40 Wayne County secondary teachers have signed up for summer 2021
- **New Marketing Video**
 - To date, our partnership has trained over 300 AP Computer Science teachers state-wide and launched over 300 new AP courses at no cost to Michigan schools. The results have been stunning—the number of students taking AP CS exams has increased more than 400% while maintaining the rate of students who earn college credit. During this time, more than 70% of Michigan students earned a score of three or higher on AP CSP Exams. This score qualifies those students to potentially earn college credit for their accomplishment.

ENSURE HIGH-QUALITY STEM EXPERIENCES

that promote the region's STEM workforce

- **Camp Invention**
 - Summer 2021 will be virtual, STEM kits will be mailed to students
 - 55 Wayne County K-6 Students given scholarships
- **STEM Through Literature Kits for Kids**
 - Created STEM Kits, Lesson Plans, and videos that connected to 4 STEM related picture books
 - 67 Wayne County Teachers
 - 4,100 students, grades 3-5
- **Lit Lab Pop Ups**
 - Created STEM Kits, Lesson Plans, and videos that connected to eight STEM related picture books
 - 16 Districts and PSAs
 - 1500 Students, Grades 2-3



FOUNDATION AND INFRASTRUCTURE