



The Wayne Regional STEM Network 2020-21 Impact Report

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

► Wayne Regional STEM Network

- One of 16 MiSTEM regional sites across the State

► STEM Through Literature Kits for Kids

MiSTEM Team provided stem kits, lesson plans, and videos that connected to four STEM related picture books.

- 67 Wayne County teachers
- 4,100 students, grades 3-5

► Ten80 (Drone Competition)

MiSTEM Team partnered with Ten80 and Square One to offer regional competitions in 2021-22

- UAV Equipment provided including Drones and Arduino-based flight controllers
- Teacher training

► Camp Invention

A virtual STEM summer program for Wayne County students in grades K-6.

- Registration includes a kit of materials for the child to use while doing hands-on learning activities.
- 55 Wayne County K-6 students received scholarships to participate.

► Computer Science Professional Learning

MiSTEM offers K-12 Computer Science Teacher Professional Learning including curriculum resources

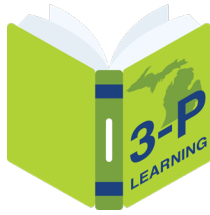
- K-5, 2017-21 CS Fundamentals = 145 Wayne County Educators
- MS/HS: includes teacher stipend, curriculum
 - 94 Wayne County teachers trained since 2017
 - Over 40 Wayne County secondary teachers have signed up for summer 2021
- New marketing video
- State-wide, the number of students taking AP CS exams has increased more than 400%
- More than 70% of Michigan students earned a score of three or higher on AP CSP Exams

► ASU Modeling Instruction

Grades 7-12 science teacher professional learning and curriculum resources.

- Over 160 secondary teachers trained since inception.





► **Mi-STAR Science Curriculum**

Mi-STAR is a middle school curriculum that empowers students to use science and engineering practices to address real-world issues.

- 84 subscriptions provided, 16 new teachers trained

► **MiSTEM Playbook Pilot Grants**

\$10,000/school was offered as a competitive state-wide grant to support 3-P learning (problem/project-based and place-based).

- Two Wayne County schools awarded
- [What is 3-P Learning](#)

► **Geospatial Technologies Talent Consortium**

Grant sponsored dual enrollment offered to students resulting in nine free college credits, industry certificates, and internships.

- High school teachers trained as Geospatial Information Systems (GIS) instructors
- Three Wayne County high schools are participating

► **Lit Lab Pop Ups**

Pop Ups are summer interventions that combine reading and writing with hands-on STEM activities for students going into third grade

- 16 districts and PSAs
- 1500 students
- Books and STEM Kits provided

► **Math Recovery**

Teacher professional learning to support elementary student's math ability

- 21 districts

► **Next Generation Science Teacher Training**

Professional Learning to support K-12 science teaching

- 980+ teachers trained

► **Master Science Teacher Fellowship**

Professional learning to create science instructional leaders

- 15 science teachers/year accepted into Fellowship from across Wayne County
- Three-year fellowship

► **Biology Pilot Project**

Initiative to pilot research-based curriculum in county high schools

- Five school districts, 30 teachers in year-long Professional Learning experience
- Each adopted a high-quality resource
- Follow up Professional Learning and virtual adaptation work with districts continues