

**Michigan State Program Improvement Plan  
2S2 - Academic Attainment in Mathematics  
2023-2024**

Michigan failed to meet 90% of State Determined Level of Performance (SDLP) for the 2S2 Academic proficiency in Mathematics indicator for 2022-23.

- 2S2 SDLP: 34.5%
- 90% of SDLP: 31.05%
- 2S2 actual performance: 29.76%

Analysis: Core Performance Indicator 2S2 performance was significantly lower for American Indian or Alaskan Native, Black or African American, Hispanic, and students with disabilities, economically disadvantaged students, single parents, English Learner students, homeless and youth in foster care, and migrant students compared to the state average. Black students, students with disabilities, single parent, English Learners, homeless, youth in foster care and migrant students had relatively larger performance discrepancies compared to the state average (9.45%, 7.24%, 1.64%, 4.49%, 7.69% and 0% respectively compared to 29.76%).

Timeline	Action Steps	Staff Members/Participants
ACTIVITY 1		
December 2023 - January 2024	Step 1: Recruit members of cross-organization planning team to plan math workshop for CTE instructors, CTE math consultants and CTE administrators. Contact MDE Office of Educational Supports director, MiSTEM Network director, and Career Education Planning District (CEPD) administrators to identify resources and planning team members.	OCTE program consultants, MIACTE staff, MiSTEM Network staff, OES staff, District staff

Timeline	Action Steps	Staff Members/Participants
January – June 2024	Step 2: Assemble cross-organization planning team that includes staff from the Michigan Department of Education Office of Educational Supports (OES) Math Consultant and Special Populations Coordinator, the Michigan Association of Career and Technical Education (MIACTE) and MiSTEM Network, and district CTE math consultants and other district staff to plan a workshop for CTE teachers and CTE math consultants on integrating project-based math instruction into CTE programs. Where appropriate, incorporate Math in Construction and Algebra II in CTE materials and concepts. Include training on how to assess student math skills. Also focus on strategies to reach students in grades 9 and 10 to provide supports prior to taking the 11 <sup>th</sup> grade math assessment. Identify resources that participants can take back to their districts.	OCTE program consultants, MIACTE staff, MiSTEM Network staff, OES staff, District staff
January 2024	Step 3: Notify Perkins regions (consortia) that failed to meet 90% of the SDLP for 2S2 that they are required to review their 2S2 data, identify programs, student groups, districts and buildings that did not meet 90% of the SDLP for 2S2 and identify a team to attend the Fall 2024 math workshop. Regions required to submit a local improvement plan will be required to include participation in the workshop in the plan as well as any follow up activities from the workshop.	OCTE program consultants, MIACTE staff, MiSTEM Network staff, OES staff, District staff
Fall 2024	Step 4: Hold statewide full-day workshop on strategies to improve math performance.	OCTE program consultants, MIACTE staff, MiSTEM Network staff, OES staff, District staff
Winter-Spring 2025	Step 5: Follow up with workshop participants to determine continuing needs.	OCTE program consultants, MIACTE staff, MiSTEM Network staff, OES staff, District staff

Timeline	Action Steps	Staff Members/Participants
Spring 2024 Michigan Occupational Special Populations Conference	ACTIVITY 2: Compile resources on supporting special populations students and students of color in math achievement. Distribute the strategies and resources to CTE administrators and special populations coordinators. Hold quarterly technical assistance calls with special populations coordinators to identify ongoing needs.	Special populations coordinators, CTE administrators, and OCTE program staff