Recommended Minnesota 2022 Mathematics Standards Implementation Timeline

To ensure successful implementation of the 2022 Mathematics standards in the 2027–28 school year, there are multiple stages for districts, curriculum directors, and educators to work through. This timeline is a recommendation for the implementation process. Districts should align pacing to meet local needs. The timeline outlines a tiered implementation, beginning with grades K–2 and 9–10 in the transition years 2025 to 2027, and progressing to assessed grades in the year 2027–28. As stated in the NIRN SISEP Active Implementation Hub, "each stage of implementation does not cleanly end as another begins. Often stages overlap with activities related to one stage occurring as activities related to the next stage begin. Likewise, stages may be revisited when circumstances change." School districts and charter schools have the authority to set their own transition timeline. The requirement is that the 2022 Mathematics standards and benchmarks be fully implemented in the 2027–28 school year. This timeline is tentative and aspirational. Additional resources can be found at the MDE Math Standards Implementation Page.

Acronyms and Abbreviations

D1: Dimension 1 – Standards of Mathematical Processes

- MP: Mathematical Practice

D2: Dimension 2 – Benchmark Contexts

- ✣ Minnesota Tribal Nations Contexts
- $ Financial Literacy Contexts
- # Computer Science Contexts
- μ Modeling Contexts
- ☼ Real World Contexts

2D: Two-Dimensional – Integration of MP's and Benchmark Contexts
EBP: Evidence-Based Instructional Practices
MCA IV: Minnesota Comprehensive Assessment - Series IV
MCTM: Minnesota Council of Teachers of Mathematics – A state professional organization that includes the MN Math Leaders Group
SciMathMN: Minnesota STEM Teacher Center (scimathmn.org), which houses the Frameworks for Minnesota Science and Mathematics Standards

Mathematics Teachers

Exploration Stage January 2023–July 2024	**Exploration Stage** 2024–25 School Year	**Transition** 2025–26 School Year	**Transition** 2026–27 School Year	**Implementation** 2027–28 School Year
PLAN Initiate discussion with curriculum director and/or administration to lay out district transition timelines for full implementation in the 2027–28 school year. **PROFESSIONAL LEARNING** Identify and engage in professional learning that supports understanding of the shifts in the 2022 math standards. **Resource:** MDE Math Standards Implementation Page Build familiarity with anchor standard design and the two dimensions overlaying the benchmarks. Examine and self-evaluate needed professional development; share with school and district leadership teams.	**PROFESSIONAL LEARNING** Identify and engage in professional learning opportunities related to the 2022 standards and grade-level benchmarks. Develop a shared understanding of the 2022 mathematics standards and benchmarks and learning progressions with colleagues. Develop a shared understanding of mathematical rigor, the eight mathematical practices, and the five mathematical contexts. Examine and evaluate current curriculum resources and identify needs for supplemental resources. **INSTRUCTION** Begin integrating Dimension 1, the mathematical practices, into a unit or series of lessons.	**PROFESSIONAL LEARNING** Engage in professional learning opportunities for the 2022 standards and grade-level benchmarks. Develop a scope and sequence by aligning anchor standards, curriculum, and evidence-based instructional practices and assessments. **INSTRUCTION** Focus on standards implementation in grades K, 1, and 9. Other grades continue integrating Dimension 1, the mathematical practices, into lessons. Begin integrating Dimension 2, mathematical contexts, into a unit or series of lessons. Pilot potential curricular units and begin adjusting current lessons.	**PROFESSIONAL LEARNING** Engage in professional learning opportunities for the 2022 standards and grade-level benchmarks. Finalize curriculum materials and resources that support the 2022 mathematics standards and grade-level benchmarks. **INSTRUCTION** Continue standards implementation in grades K, 1, and 9. Begin standards implementation in grades 2 and 10. Other grades begin using 2D formative and summative assessment items. Pilot potential curricular units and begin adjusting current lessons.	**PROFESSIONAL LEARNING** Develop a common understanding of the structure and scope of the MCA-IV. Continue examining instructional practice and evidence of learning for alignment to the standards. **Resource:** Testing 1,2,3 Website **INSTRUCTION** Instruction in mathematics in grades K–8 must include all the required 2022 mathematics standards and grade-level benchmarks. Instruction at the high school level must include all the required 2022 mathematics standards and benchmarks for grades 9–11. Achievement of 2022 standards/benchmarks is monitored and assessed at the classroom and district levels.

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				Use 2D formative and summative assessments in preparation for the MCA-IV.

District Leaders (including Administrators, Curriculum Coordinators, Special Education Coordinators, English Language (EL) Coordinators, Peer Coaches, and Math Leaders)

Exploration Stage January 2023–July 2024	**Exploration Stage** 2024–25 School Year	**Transition** 2025–26 School Year	**Transition** 2026–27 School Year	**Implementation** 2027–28 School Year
PLAN Convene a leadership team that includes mathematics educators from all school levels, administrators, curriculum directors, and other partners. Develop a plan for the transition to implementation of the 2022 mathematics standards. Outline needed components of the implementation plan, including timelines, budgets, professional learning system, curriculum development and evaluation. **SUPPORT**	**PLAN** Initiate a plan for the transition to implementation of the 2022 mathematics standards, including grades K–1 and 9 implementing in the 2025–26 school year and grades 2 and 10 in 2026–27. Prepare and plan for appropriate teacher professional learning supports. Generate an evaluation plan and process to review the alignment of the current mathematics curriculum through assessing fit and feasibility of implementing the 2022 Mathematics Standards with current curriculum.	**PLAN** Monitor and adjust implementation plan as needed, including the tiered implementation of grades K–2 and 9–10. Develop a scope and sequence by aligning standards, content progressions, curriculum, and evidence-based instructional practices and assessments. Identify potential units/lessons connected to the 2022 math standards to pilot. Review and allocate resources for appropriate professional learning,	**PLAN** Monitor and adjust implementation plan as needed. Finalize curriculum decisions based on data and complete any district adoption requirements. Finalize a scope and sequence by aligning standards, curriculum, and evidence-based instructional practices and assessments. Direct mathematics curriculum evaluation in conjunction with teachers, families, students, and community members.	**IMPLEMENTATION** Direct implementation work, engaging in continuous improvement cycles to assess and sustain implementation efforts. Ensure full implementation of the 2022 Mathematics Standards and grade-level benchmarks. Utilize fidelity and outcome measures to monitor and adjust implementation supports. **SUPPORT** Provide district-specific professional development on the 2022 Mathematics Standards implementation, grounded

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Assess readiness and explore needed training to build capacity of staff. Provide professional learning around the shifts in the 2022 Mathematics Standards, including the transition to learning progressions within Anchor Standards. **COMMUNICATE** Communicate the standards implementation process to relevant internal and external groups.	**SUPPORT** Examine and evaluate current curriculum resources and identify needs for supplemental resources. Develop a shared understanding of the standards and content learning progressions. Provide professional learning, including coaching and professional learning around the two dimensions, mathematical rigor, and the standards. **COMMUNICATE** Communicate current status of the standards implementation process to relevant internal and external groups.	staffing, and scheduling needs. **SUPPORT** Provide support for standards implementation in grades K, 1, and 9. Examine the grade-level expectations for concepts, knowledge, and skills in the standards and benchmarks. Identify ways that students can demonstrate understanding of each benchmark. Provide professional learning, including coaching, around what understanding of standards and benchmarks (with a lens on mathematical rigor and the two dimensions) looks like in classroom assessment. **COMMUNICATE** Communicate current status of the standards implementation process to relevant internal and external groups.	**SUPPORT** Provide support for standards implementation in grades K–2 and grades 9–10. Provide professional learning, including coaching, around implementing the two dimensions into lessons and assessments. Monitor and support pilots of units and support teachers in adjusting lessons. **COMMUNICATE** Communicate current status of the standards implementation process to relevant internal and external groups.	in a process of continuous improvement. **COMMUNICATE** Communicate about the standards' full implementation to relevant internal and external groups. Celebrate progress and growth.

Planned Actions for Minnesota Department of Education (MDE)

Exploration Stage January 2023–July 2024	**Exploration Stage** 2024–25 School Year	**Transition** 2025–26 School Year	**Transition** 2026–27 School Year	**Implementation** 2027–28 School Year
POLICY Provide public comments period with rulemaking. Proposed mathematics standards pass through formal rulemaking process, resulting in final mathematics standards codified in MN rule. Develop MCA-IV Mathematics Test Specifications aligned to the 2022 standards.* **SUPPORT** Prepare presentations and web-based support on standards shifts, transition plans, two-dimensional instruction, and pedagogy. Partner with MCTM, MN Math Leaders, and SciMathMN to connect math educators and leaders to implementation resources.	**POLICY** Develop and field test MCA-IV items aligned to 2022 standards.* **SUPPORT** Provide regional or virtual training professional development on the 2022 Mathematics Standards, including learning progressions and the alignment of curriculum and Evidence-Based Instructional Practices (EBPs). Provide continued guidance to support exploration. **PREPARE AND SHARE** Appendices and glossary Curriculum Rubric Develop tools for unpacking the 2022 Standards & Learning Progressions related to: • Anchor Standards: 5–7 • D1: MP7, MP8	**POLICY** Develop and field test MCA-IV items aligned to 2022 standards.* **SUPPORT** Provide web-based and regional professional learning opportunities to support mathematics teachers. Convene district leaders to share progress and ideas on instructional practices and student supports. Provide continued guidance to support transition. **PREPARE AND SHARE** Develop tools for unpacking the 2022 Standards & Learning Progressions related to: • Anchor Standards: 3–4 • D1: MP2, MP3 • D2: $ Financial Literacy Webinars to support transition	**POLICY** Develop and field test MCA-IV items aligned to 2022 standards.* **SUPPORT** Provide web-based and regional professional learning opportunities to support mathematics teachers. Convene district leaders to share progress and ideas on classroom assessments. Provide continued guidance to support transition and finalized district scope and sequence and curricular decisions. **PREPARE AND SHARE** Develop tools for unpacking the 2022 Standards & Learning Progressions related to: • D1: MP5, MP6	**POLICY** First year the 2022 standards are fully assessed on the MCA-IV. **SUPPORT** Develop web-based supports and regional presentations focused on continuous improvement. Provide continued guidance, technical assistance, and open office hours to support full implementation. Convene district leaders to share progress and ideas on continuous improvement. Develop shared understanding of the scope and structure of the MCA-IV operational in spring of 2028. **PREPARE AND SHARE** Webinars to support implementation

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PREPARE AND SHARE Introduction to the 2022 Mathematics Standards webinar Standards Frequently Asked Questions Develop tools for unpacking the 2022 Standards & Learning Progressions related to: • Anchor Standards: 1–2 • D1: MP1, MP4 • D2: μ Modeling	• D2: # Computer Science Webinars to support exploration		• D2: ✣ Minnesota Tribal Nations and ☼ Real World Webinars to support transition	

*During this school year, the MCA-III will be given and aligned to the 2007 Minnesota K–12 Academic Standards in Mathematics.