

## Minnesota Department of Education: Potential Transition Timeline for the 2019 Science Standards

School districts and charter schools have the authority to set their own transition timeline. The requirement is that the 2019 standards and benchmarks be fully implemented by 2023-24.

This timeline is tentative and aspirational. Acronyms and abbreviations are below the chart

Groups	2019 - 2020	2020-21	2021-22	2022-23	2023-24
<b>Teachers</b>	<p><b>Professional Development:</b></p> <ul style="list-style-type: none"> <li>Understand standards shifts</li> <li>Understand standards, benchmarks, and Framework</li> <li>Learn Practices and Phenomena based instruction (intro level)</li> <li><i>Science and Engineering Practices in Action (SEPA) modules</i></li> </ul> <p><b>Teaching:</b></p> <ul style="list-style-type: none"> <li>Start using Practices in current instruction</li> </ul>	<p><b>Professional Development:</b></p> <ul style="list-style-type: none"> <li>Phenomena- based instruction (discourse), Crosscutting Concepts</li> <li><i>MnSTELLA -Storylines</i></li> <li>Content, especially Earth science</li> </ul> <p><b>Teaching:</b></p> <ul style="list-style-type: none"> <li>Use Practices in current instruction</li> <li>Pilot activities/adjust current lessons</li> </ul>	<p><b>Professional Development:</b></p> <ul style="list-style-type: none"> <li>Formative assessment strategies (3D tasks)</li> <li><i>MnSTELLA –Student Thinking</i></li> <li>Content, especially physical science</li> <li>PLC evaluation of instruction and learning</li> </ul> <p><b>Teaching:</b></p> <ul style="list-style-type: none"> <li>Teach new standards for grades K, 3, 6 and 9-12 elective courses</li> <li>Start using 3D formative assessments</li> </ul>	<p><b>Professional Development:</b></p> <ul style="list-style-type: none"> <li>Common assessments</li> <li>Content, especially life Science</li> <li>PLC evaluation of instruction and learning</li> </ul> <p><b>Teaching:</b></p> <ul style="list-style-type: none"> <li>Teach new standards for grades 1,4,7, and 9</li> <li>start using common assessments</li> </ul>	<p><b>Professional Development:</b></p> <ul style="list-style-type: none"> <li>MCA IV understanding</li> <li>PLC evaluation of instruction and learning</li> </ul> <p><b>Teaching:</b></p> <ul style="list-style-type: none"> <li>Teach new standards in grades 2,5,8, and biology, chemistry and physics</li> <li>Training students for MCA IV</li> </ul>
<b>Administrators and Leadership teams</b>	<p><b>Plan:</b></p> <p>Form leadership team Plan transition timeline</p> <ul style="list-style-type: none"> <li>Phase-in timeline</li> <li>professional development plans</li> <li>evaluate staffing</li> <li>Communicate the process</li> </ul> <p><b>Curriculum and Materials</b></p> <ul style="list-style-type: none"> <li>Evaluate courses and time allocation</li> <li>Evaluate current materials</li> </ul>	<p><b>Plan:</b></p> <ul style="list-style-type: none"> <li>Plan staffing shifts</li> </ul> <p><b>Curriculum and Materials</b></p> <ul style="list-style-type: none"> <li>Course and unit writing: grades K,3,6, and High School electives</li> <li>Study new instructional materials + purchase(?)</li> </ul>	<p><b>Plan:</b></p> <ul style="list-style-type: none"> <li>implementation data collection</li> <li>evaluate and adjust instruction and curriculum</li> </ul> <p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>Coaching and PLCs for grades K, 3, 6, and High School electives</li> </ul> <p><b>Curriculum and Materials</b></p> <p>Courses and units writing for grades 1, 4, 7, and 9</p> <ul style="list-style-type: none"> <li>Write common assessments for developed courses.</li> </ul>	<p><b>Plan:</b></p> <ul style="list-style-type: none"> <li>implementation data collection</li> <li>evaluate and adjust instruction and curriculum</li> </ul> <p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>Coaching and PLCs for grades 1,4,7, and new High School course</li> </ul> <p><b>Curriculum and Materials</b></p> <ul style="list-style-type: none"> <li>Courses and unit writing: grades 3, 6, and Biology</li> <li>Write common assessments.</li> </ul>	<p><b>Plan:</b></p> <ul style="list-style-type: none"> <li>implementation data collection</li> <li>evaluate and adjust instruction and curriculum</li> </ul> <p><b>Professional Development</b></p> <p>Coaching and PLCs grades 2, 5, 8, and Biology</p> <p><b>Curriculum and Materials</b></p> <ul style="list-style-type: none"> <li>Write common assessments for developed courses.</li> </ul>

Groups	2019 - 2020	2020-21	2021-22	2022-23	2023-24
<b>State of Minnesota</b>	<p><b>Policy:</b></p> <ul style="list-style-type: none"> <li>• Rulemaking</li> <li>• Licensure- Planning with PELSB</li> </ul> <p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>• Standards shifts, transition timeline and Practices pedagogy</li> <li>• Regional workshops, conferences</li> </ul> <p><b>Support</b></p> <ul style="list-style-type: none"> <li>• District Leaders: Planning, Communications</li> <li>• Informal and higher Education</li> <li>• MCA Test Specifications</li> </ul>	<p><b>Policy:</b></p> <ul style="list-style-type: none"> <li>• Rulemaking Completion-Fall</li> <li>• PELSB licensure standards and licensure modifications?</li> </ul> <p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>• 3D, phenomena Instruction</li> <li>• Regional workshops, conferences</li> </ul> <p><b>Support</b></p> <ul style="list-style-type: none"> <li>• District Leaders: Curriculum planning, Materials evaluation</li> <li>• Promote the development of Curriculum Resources</li> <li>• MCA Item development to new standards and Field tested on MCA-III</li> </ul>	<p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>• Formative Assessment</li> <li>• Regional workshops, conferences</li> </ul> <p><b>Support:</b></p> <ul style="list-style-type: none"> <li>• District Leaders : Assessment, Data practices</li> <li>• MCA Items developed to new standards and Field Tested on MCA-III</li> </ul>	<p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>• Instructional Analysis and improvement</li> <li>• Regional workshops, conferences</li> </ul> <p><b>Support</b></p> <ul style="list-style-type: none"> <li>• District Leaders : Instructional practices, Student support</li> <li>• MCA Items developed to new standards and Field Tested on MCA-III</li> </ul>	<p><b>Professional Development</b></p> <ul style="list-style-type: none"> <li>• Continuous Improvement</li> </ul> <p><b>Support</b></p> <ul style="list-style-type: none"> <li>• District Leaders : Continuous improvement, Student support</li> <li>• Spring 2024 first Operational MCA-IV</li> </ul>

Framework = A Framework for K-12 Science Education

SEP = Science and Engineering Practices

CC = Cross Cutting Concepts

CI = Core ideas

3D = Integration of SEPs, CCs, and CIs

SEPA = Science and Engineering Practices - An online professional development module

MnSTELLA = Minnesota Science Teacher Educator Learning through Lesson Analysis, with two courses: Eliciting Student Thinking, and Storylines

STEM TC = STEM Teacher Center website, which houses the Frameworks for Minnesota Science and Mathematics Standards

PELSB = Professional Educators Licensing and Standards Board

For questions contact [john.c.olson@state.mn.us](mailto:john.c.olson@state.mn.us)

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