



**Mathematics Content Standards
Development Committee
Meeting Minutes
July 27-28, 2022**

Wednesday, July 27, 2022

8:15 AM – 4:15 PM

Bismarck Career Academy, Multi-Purpose Room

Facilitators: Dr. Jeffrey Boyer, NDSU

Davonne Eldredge, Assistant Director of Academic Support, DPI

Meeting Convened: 8:15 AM

Meeting Adjourned: 4:15 PM

Attendance – Mathematics Content Standard Development Committee Members

Bennett, Autumn	Lee, Kayla
Bertsch, Michelle	Leier, Jill
Blegen, Marie	Neal, Amy
Carpenter, Kimberly	Poffenberger, Mae
Enockson, Molly	Seyfried, Nicole
Gabbert, Linda	Sheldon, Elsie
Hendrickson, Lisa	Spencer, Jacy
Jordan, Rebecca	Vollmer, Tara
Kratcha, Megan	Wirth, Jamie

Attendance – Facilitator and NDDPI Staff Members

Boyer, Dr. Jeffrey
Ellefson, Ann
Olsen, Taylor
Welk, Kara
Eldredge, Davonne

Welcome

Davonne Eldredge welcomed the Mathematics Content Standards Development Committee members and expressed gratitude to the committee members for their service and committed support. She facilitated introductions of the facilitator, committee members, and staff.

Introductions, Overview of Roles and Responsibilities

Davonne Eldredge thanked the committee for the important work they will be doing. The committee roles and responsibilities were reviewed.

Introduction to Standards Development

Davonne Eldredge reviewed the purpose of content standards, design elements, ND Legislative mandates, and future selection of a Content Standards Review Committee. North Dakota open records and open meetings laws were also reviewed.

Guiding Process for Standards Development

Ms. Eldredge discussed group working agreements, “Fist-to-Five” method of coming to consensus, various group structures, and the use of the TEAMS site for committee work and resources.

Presentation of Mathematical Trends and Mathematics Practices

Dr. Jeffrey Boyer from NDSU presented statistical trends in mathematics and shared information about progress demonstrated by students in mathematics since 2017, along with information about the NCTM Math Process Standards, Strands of Mathematical Proficiency, and the Standards for Mathematical Practices. During this presentation, Dr. Boyer summarized the results of the teacher survey regarding the current standards for mathematics. Following this presentation, the group discussed these standards to determine how they would be used as they reviewed the standards. The group decided they preferred the Standards for Mathematical Practices since they incorporated the other documents and are currently used in the existing standards document.

Tasks for July Meetings

Tasks for the two-day session were reviewed and points to consider during the process were discussed, emphasizing that all standards be appropriate to all ND students and reflect ND priorities for content learning. Ms. Eldredge reviewed the differences between standards and curriculum. She reiterated the fact that the standards are written by this committee while curriculum is written in the local school district. The group was informed that the instructional units, lessons, and practices are set by the local school district.

- Task 1: Analyze comparable state and national standards
- Task 2: Analyze current North Dakota standards
- Task 3: Determine the organizational structure
- Task 4: Identify and describe elements within the organizational structure

Independent Work – Task 1

Dr. Boyer had the committee members independently review the standards from other states. They identified strengths and weaknesses of the standards and noted elements they may want to consider when revising the North Dakota standards.

Independent Work – Task 2

Dr. Boyer had the committee members independently review the 2017 ND Mathematics Standards. The committee members noted strengths, weaknesses, and potential changes that may be needed.

Small Group Discussion of Tasks 1 and 2

The committee broke into small groups to share the results of their reviews of existing standards and standards from other states. During the discussion they identified things that work, things that do not work, and items to consider as the standards are revised.

Whole Group Discussion of Tasks 1 and 2

Each group shared the observations and opinions expressed within their groups. This information was recorded and later added to the TEAMS file. The information may be used by the committee as their work continues.

Task 3 – Determine the Organizational Structure of Standards

Dr. Boyer led a discussion about the organization of standards from other states and current North Dakota Standards. The committee identified a difference in the organization of the current standards between K-5 and 6-12. There was discussion about those differences. Members of the committee indicated a preference for remaining with a structure similar or the same as the existing structure. They made a decision to have four K-12 overarching categories under which the remaining standards details would fall.

Planning for Day 2

Details on the organizational structure would be a discussion that would continue the following day.

Thursday, July 28, 2022

8:15 AM – 4:00 PM

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Davonne Eldredge, Assistant Director of Academic Support, DPI

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Eldredge, Davonne

Welcome Back and Announcements

Davonne Eldredge welcomed the group back and previewed the agenda for the day.

Reflections on Day 1

Ms. Eldredge reviewed the differences between standards and curriculum and the activities of Day 1. Work completed on Day 1 and questions and reflections of the team were reviewed.

Presentation of the Learning Continuum

Ann Ellefson presented information regarding the ND legislation pertaining to the Learning Continuum. The development and content of the continuum was reviewed. This document contains information that the committee may consider as they proceed with the standards review.

Task 4 – Group Work

The committee broke into small groups to identify the definitions for each of the overarching categories that would be used to divide the standards. This work was recorded in the TEAMS file.

Task 4 – Whole Group

Each group shared the goals they had written. The entire committee discussed each goal and asked questions of the groups to clarify. The committee voted to achieve consensus on the wording of the goals. During this process, the information was recorded in the TEAMS file.

Task 4 – Group Work

Dr. Boyer divided the committee into gradespan groups to review the second level of the tiers within the standards. As they reviewed this tier, the groups checked the structural alignment chart within the existing document to determine if the categorization aligned with the overarching category and the definitions created. Work done by the groups was recorded in the TEAMS file.

Reflections on Day 2 and Planning for September Meeting

Dr. Boyer reviewed the work done. The group was assigned homework to continue examining the tiers of the standards and determine if the current structure and placement of tiers within that structure met current needs. They were also assigned the task of examining the existing standards to determine if and where revisions may be needed.