



Math Standards Negotiated Rulemaking Meeting Minutes
Session #2 – Wednesday, November 15, 2023 –8:30 am to 4:00 pm

Roll Call

Negotiated Rulemaking Members

Brooke Taylor
Brooke Tuft
Carrie Fisher
Dr. Chris Olszewski
Dr. Julie Murgel
June Ellestad
Kathy Milodragovich
Kathy McCrea
Dr. Lynne Rider
Robert Griffith
Teri Dierenfield

OPI Representation & Support

Christy Mock-Stutz
Marie Judisch
Katrina Engeldrum
Michelle McCarthy
Sheri Harlow

Facilitator

Diane Groves

Absent Committee Members

Elaine Cummins

1. Welcome and Reflection on the work thus far with Committee Members

2. Consensus building on proposed standards continued

- The committee took time to review content standards from the previous session.
- **10.53.501 MP1- MP8: Mathematical Practices**
 - MP.1 proposed to consolidate the two parts into one in, order to present proper grammatical listing practices. Traditionally, listing language is not utilized when only one item follows the original statement.
 - MP.2 proposed to consolidate the two parts into one in, order to present proper grammatical listing practices.
 - MP.3 proposed to stay consistent and consolidate the two parts into one.
 - MP.6 proposed to remove the “a” and the colon.
 - MP.7 proposed that Indian Educations clarified that Indigenous Peoples was more respectable. So, we should replace Montana American Indians with Montana Indigenous Peoples and throughout the rest of the document.
 - No dissent, consensus reached on the proposed recommendations.
- **10.53.502 Kindergarten Content Standards**
 - Proposal to update the IEFA language to reflect consistency.
 - No dissent, consensus reached on the proposed recommendation.
- **10.53.503 First Grade Content Standards**
 - Proposed to add and after semi colon for format consistency 1G
 - No dissent, consensus reached on the proposed recommendation.
- **10.53.504 Second Grade Content Standards**
 - Motion to update the IEFA language to reflect consistency.
 - No dissent, consensus reached on the proposed recommendation.

3. Public Comment

- Those with public comment have 3 minutes to share their statement.
- Tina Blair commented that she had worked on the Task Force committee and what an honor that had been and that this committee is doing a great job.
- No public comment received via email.

3. Consensus building proposed standards continued

- **10.53.505 Third Grade Content Standards**

- *10.53.505.1 Mathematics Operations and Algebraic Thinking*
 - 1.b proposed to remove example from standard language and move into guidance documents P.1.b is the example necessary? Language is different in this standard compared to others shared.
 - 1.b has dissent would like to discussion – reason behind having whole numbers twice – review original language
 - 1.b proposal: understand whole-number quotients of whole numbers as the number of objects in each group with the total quantity divided equally into a number of shares and as the number of shares when a total number of objects is partitioned into
 - 1.b dissents discussion – can we compromise on adding a parenthetical for an example?
 - 1.e proposed: understand whole-number quotients of whole numbers;
 - 1.e proposes rephrase and remove the note and parenthetical
 - 1.e proposed to add note to guidance document
 - 1.e proposed to rephrase, remove properties of operation before on whole numbers.
 - 1.g proposal example removed and 'by the end of grade 3, know from memory
 - 1.g responded that you do not add from memory to any documents
 - 1.h proposed to update Montana American Indians to MT Indigenous Peoples, change work problem to problems in context.
 - 1.h proposed to remove i.e., variable Clean up
 - 1.i proposal omit parenthetical and move example to guidance document
 - No dissent, consensus reached on the proposed recommendations
- *10.53.505.2 Mathematics Number and Operations in Base Ten*
 - No dissent, consensus reached on the proposed recommendation.
- *10.53.505.3 Mathematics Number and Operations Fractions*
 - No dissent, consensus reached on the proposed recommendation.
- *10.53.505.4 Mathematics Measurement and Data*
 - 4.a proposed to remove work and make problems in context
 - 4.b proposed to remove examples to guidance documents
 - 4.b.i to remove work and make problems in context, remove examples to guidance
 - 4.c delete American Indians and replace it with Indigenous Peoples correction
 - 4.c proposed to remove example and move to guidance documents

- 4.d proposed to remove example and move to guidance
- 4.f proposed to remove examples to guidance
- 4.g proposed to add colon after “by”
- 4.g.ii remove "real world mathematical problems" to "in context" strike "in mathematical reasoning
- 4.g.iii proposed to removed examples to guidance documents
- 4.g.iii proposes to remove in a concrete case
- 4.g.iii proposed to use area models to represent the distributive property in finding areas of rectangles with whole number side lengths
- 4.g.iii use filing and area models to represent the distributive property in finding area of a rectangles with whole number side lengths a and $b + c$ is the sum or $a \times b$ and $a \times c$.
- 4.g.iv proposes to remove American Indian and replace it with Indigenous Peoples
- 4.g.v remove “real-world and mathematical” problems and change to “in context’
- 4.g.v proposes to solve changed to solving
 - No dissent, consensus reached on the proposed recommendation.
- *10.53.505.5 Mathematics Geometry*
 - 5.1.a proposed to remove examples and place in guidance document.
 - 5.1.a discussed separating last part to another standard.
 - 5.1.b proposed to remove examples and place in guidance document.
 - No dissent, consensus reached on the proposed recommendation.

4. Summary and Next Steps

- Elementary Grades 4 and 5
- Virtually on Friday, December 1st 8:30 am to 4:30 pm.
- Please read through the documents so that we will all be ready.
- Middle School, Highschool Standards and Review rule recommendations and determine if an economic impact statement is needed.
 - In person at the MT State Capital
 - Monday January 8th starting at noon to 5:00 pm,
 - January 9th 8:30 to 5:00, and January 10th 8:30 am to 5:00 pm.