

Attendees:

| <i>Required (DT):</i> | <i>Optional (RT):</i> | <i>Optional (OPI):</i> | <i>Optional (EDNW):</i> |
|--|---|------------------------------------|------------------------------------|
| Cliff Bara Deanne Gemmill Frederick Peck Marisa Graybill Beth Cooney Janice Novotny | Pat Baltzley Sharon Carroll Lisa Scott | Marie Judisch Katrina Engeldrum | Jacob Williams Erich Stiefvater |

Agenda:

- 9-12 Development Team (DT) examines [9-12 Math Standards - Cleaned Up - Sept. 2023](#) and the comments provided by the team.
- Edits on standards
- Justification statement
- Additional requests/suggestions with formatting/structure
- Additional comments/questions
- Establish the date that all final revisions will be added to the document and final clean-up will be conducted to move forward in the process.

Discussion:

- Construction of Document
- Fred shared the justification and rationale document
- Concern about how these standards cross-walk. Do we need strikes?
- Fred shared the proposed code system - the intent is for the code to be easier to understand.
- Fred shared the revisions document with language changes
- Looking for repetition within standards.
- What is the expectation for a 4th year math teacher? - OPI guidance documents for Calculus, standards, computer, and career-based pathways. Is not including this an option in the best interest of students? The feeling of the committee - these standards match MT law, presenting only 3 years, which opens it up for schools to determine their 4th year standards for each pathway they provide, with help from OPI. OPI needs to establish some guidance on what "college prep" expectations look like. Collaborations between colleges, OPI and teachers.
- Question Posed - Who is licensed to teach this 4th year? It is an elective? Is it a Math class? Can anyone teach a math elective without being licensed in math?
- Standards should be rigorous and yet allow for flexibility.
- Questions regarding Financial Literacy. Determined these are present in the CTE 2021 Standards.

Discussion Continued:

- Striking Core.Num.Units.2
- Striking All the number units cluster items. These standards are now represented within the Modeling cluster. Reason: push instruction towards modeling strategies.
- Adding the concept of choosing strategies or forms of equations strategically.
- Core.Data.Int.4,5,5a - Consolidate 5 and 5a but keep 4 separate.
- Discussion about Normal Distributions in Core plus standards - These aren't in the NCTM essential concepts. Determined to keep this.
- Adding in Plus.Data.Inf.1 for simulations.
- Previous statistics and probability standards were heavy on probability. These ones are heavy on statistics and data science. Recognize that teachers will need significant support in this area. Will need courses available on the Learning Hub along with significant PD offered.
- We need to ask OG - college admissions to consider these standards when formulating their admissions requirements.

| Action Steps | Person In Charge | Due Date |
|---|------------------|----------|
| Send discussed documents to Katrina | Fred | 10/13/23 |
| Revise working document | Katrina | 10/13/23 |
| Send out a follow-up email | Katrina | 10/13/23 |
| PDU certs sent- 2 hours | Katrina | 10/13/23 |
| Vertical alignment and review considerations | Review Team | 10/19/23 |
| Prep document for superintendent and NRC review | Katrina | 10/23/23 |