National Council of Teachers of Mathematics

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Mission Statement

The National Council of Teachers of Mathematics advocates for high-quality mathematics teaching and learning for each and every student.

Joint Position Statement

- NCTM
- NSTA (National Science Teaching Association)
- CSTA (Computer Science Teachers Association)
- ASA (American Statistical Association)
- NCSS (National Council for Social Studies)

- Data Science is contextual and interdisciplinary.
- Data Science is an investigative process.
- Data Science understandings and experiences are for everyone.
- Data Science educators must develop and practice ethical uses of data.

Teaching Data Science in High School: Enhancing Opportunities and Success

- Identifies some essential skills
- Identifies student habits of mind that should be developed

- Nctm.org/positions

Artificial Intelligence and Mathematics Teaching

- AI tools do not replace the need to teach math or problem solving
- AI tools encourage teachers to reimagine teaching and assessment
- AI tools can personalize learning

High School Mathematics Reimagined

- Relevance
- Mathematical and statistical modeling
- Appropriate use of technology

GAISSE 2

- ASA and NCTM
- Defines K-12 statistical education
- Includes data science concepts

Key Ideas

- Increasing opportunities for students in statistics and data science
- Relevance and usefulness of mathematics
- What mathematics is the key content in light of AI

Work Needed Still

- Progressions
- Identifying, implementing, and integrating enduring practices
- Collaborate with other organizations