2016 NCTM Affiliate Leaders Conference

My Goals Tonight

• Welcome
• Brief Update on NCTM
• Discuss the Importance of WHY

NCTM Mission Statement

The National Council of Teachers of Mathematics is the public voice of mathematics education, supporting teachers to ensure equitable mathematics learning of the highest quality for all students through vision, leadership, professional development, and research.

NCTM Strategic Priorities

• Access, Equity, and Empowerment: Advance knowledge about, and infuse in every aspect of mathematics education, a culture of equity where everyone has access to and is empowered by opportunities mathematics affords.

• Advocacy: Engage in public and political advocacy to focus policymakers and education decision makers on improving learning and teaching mathematics.

• Curriculum, Instruction, and Assessment: Provide guidance and resources for developing and implementing mathematics curriculum, instruction, and assessment that are coherent, focused, well-articulated, and consistent with research in the field, and focused on increasing student learning.

• Professional Development: Provide professional development to all stakeholders to help ensure all students receive the highest quality mathematics education.

• Research: Ensure that sound research is integrated into all activities of the Council.

• Technology: Promote strategic use of technology to advance mathematical reasoning, sense making, problem solving, and communication.
Brief NCTM Update

NCTM Major Initiatives & New Resources

- NCTM’s Renewed Focus on Access, Equity and Empowerment
- New Position Statements
- Presidential “Blog”
- State Advocacy Conference
- Principles to Actions Toolkits
- ARCs
- New Publications
- Innov8 – A new conference experience

NCTM Has A Renewed Focus on Access, Equity, and Empowerment

NCTM has traditionally focused on standards, curriculum, instructional practices, and assessment in a de-contextualized way – emphasizing “technical solutions” that too often have ignored the experiences of children.
NCTM is re-framing its work to focus on Access, Equity, and Empowerment, to capture the critical constructs of identity, agency, and social justice.

Moving Forward

NCTM-hosted Equity Initiative
March 24, 2016

- TODOS
- NCSM
- AMTE
- ASSM
- BBA
- WME
- NASGEm
- Journal of Urban Mathematics Education (JUME)

Priority NCTM Actions: Access, Equity and Empowerment

- Stop using deficit language

- Expand beyond Access & Equity, to include concepts of Identity, Agency, & Social Justice

Priority NCTM Actions: Access, Equity and Empowerment

- Incorporate discussion/examples of equity issues in the enactment of the eight effective teaching practices in NCTM’s Principles to Actions: Ensuring Mathematical Success for All (P2A) in our forthcoming grade-band teaching practices elaboration books and other P2A related materials.

2017 NCTM Annual Conference

ACCESS, EQUITY & EMPOWERMENT
November 15 – 17, 2017
Las Vegas, NV

2017

INNOVx

CONFERENCE
The Language of Mathematics: Students Finding Their Voice in Mathematics
October 4-6, 2018
Hartford, CT
Kyndall Brown, TODOS Board Member, is Program Chair

NCTM Position Statements

Evaluation of Teachers of Mathematics
A Position of the National Council of Teachers of Mathematics

Question: What factors should be considered in evaluating the effectiveness of teachers of mathematics?

NCTM Position
Teacher effectiveness is one of the most important factors in student learning and success. Both teachers and students stand to benefit from a comprehensive system of teacher evaluation that considers data from multiple domains of professional practice over time, such as the effective teaching practices found in Principals for Principals. Current evaluation methodologies that include student test scores and value-added measures of teacher effectiveness should not obscure the fact that many factors must play a role in the consideration of the evaluation of teachers of mathematics. Professional growth and support should be at the forefront of the evaluation process that is led by experts in effective mathematics instruction.

State Advocacy Conference for Mathematics Education

- State department and NCTM state Affiliate leaders from 12 states
- Goals
  - Increase knowledge about effective advocacy re: high-quality mathematics teaching and learning
  - Develop relationships within and across states to support effective advocacy
  - Commit to take action
- Partners: Hunt Institute, Collaborative for Student Success
Activities with Rigor and Coherence (ARCs)

Sequence of 2–4 lessons that

- Support Principles to Actions
- Address a specific math topic
- Scaffold effective teaching
- Support the 8 SMPs
- Demonstrate the 5 Practices for Orchestrating Productive Mathematics Discussions
- Integrate the wide array of NCTM resources

NCTM Regional Conferences

NCTM Annual Conference

New Conference Partnership

A new hands-on, interactive learning experience

3 Pathways

- Response to Intervention (RtI)
- Supporting Productive Struggle
- Motivating the Learner Who Struggles

Collaborating with a team

- Keynote and expert presentations
- Learning Lounge
  - One-on-one with speakers
  - Book discussions
- Team time to plan and share ideas
- New technologies and solutions
New NCTM Publications

Developing Mathematical Ideas Professional Development Series
Module 1 now available
Number and Operations, Part 1:
Building a System of Tens

New NCTM Publications

Why, What, and How

Why: What is our cause, purpose, belief?
The NCTM Vision Statement

We envision a world where everyone is enthused about mathematics, sees the value and beauty of mathematics, and is empowered by the opportunities mathematics affords.

What Does it Mean to be Empowered by Mathematics?

- It is more than college and career preparedness
- It is more than enhancing our country’s economic competitiveness & national defense
- Mathematics is an essential analytical tool to understand and potentially change the world -- social justice

We Need to Also Focus on Mathematics For Democratic Citizenship

Traditionally, mathematics education has been connected to issues of national economic survival, rather than to the development of democratic citizenship through critical thinking in mathematics.

Traditional Goals Remain Important

It is equally important to recognize that improving opportunities for employment is a real expectation that students and parents have of school. But preparation for the job market is indeed preparation for the capability of dealing with new challenges.

Never Has this Been More Important

Mathematics literacy is essential to informed and active citizenship. We live in a world where mathematics is increasingly used to characterize societal problems and formulate solutions.

Never Has this Been More Important

Without mathematics literacy and a positive mathematics identity and agency, ordinary citizens are unlikely to comprehend, let alone challenge, many of the decisions and actions of those in power in political, social, scientific, and economic institutions.


We want to live in a society where citizens not only have the agency to improve their own lives, but the lives of others and society at large.

Each and everyone of us is engaged in an enterprise much bigger than the specific tasks of our daily job.

**Why I Believe We Teach Mathematics**

**We Contribute to a Better Society!**

**Thank You!**

Thank you for being here!
Thank you for your leadership!
Thank you for what your affiliate does!
Thank you for being an affiliate!

What we do is standards, conferences, publications, journals, professional development, and advocacy.

But why we do it is so we live in a society where citizens not only have agency to improve their own lives, but the lives of others and society at large.