

Overview Schedule



Time	Activity			
9:00 - 9:50am <i>Media Center</i>	K-12 Welcoming and Opener Grab 'n Go Breakfast Provided by Lab-Aids			
	Elementary Options		Secondary Options	
	Room 1	Room 2	Room 3	Room 4
10:00 - 10:50am Breakout Sessions	Supporting Students' Understanding of Addition & Subtraction Problem Types <i>Ana Floyd</i>	Creating Powerful Experiences in Elementary Math <i>Brandi Newell</i> K-5	Progressive Representation in Ratios <i>Ruchi Agarwal & Akeala Durham</i> 6-12	Procedural Fluency through Conceptual Understanding <i>John Pritchett</i> 9-12
11:00 - 11:50am Breakout Sessions	Motivating Mathematicians Through Student Choice <i>Ashley Tang-Halverson</i>	Making Numbers Make Sense: Strengthening Instruction Through Number Sense <i>Nadia Bennett & Marcie Boutin</i>	Purposeful Planning <i>Christina Ina</i> 6-12	From Doing to Thinking: Tasks That Support Student Confidence <i>Angonique Calhoun-Minnis</i> 6-12
12:00 - 12:50pm Breakout Sessions	Hands-On to Minds-On: Connecting manipulatives to understanding <i>Dustin Best</i>	Tessellating the Planar Surface <i>Charlene Sheets</i>	Engaging Students in Their Own Learning and Growth <i>Christina Ina</i> 6-8	Developing Student Reasoning with Desmos <i>Josh Mata & Angonique Calhoun-Minnis</i> 6-12
1:00 - 2:00 <i>Cafeteria</i>	Networking Lunch Provided by Imagine Learning Classroom			

10:00 Breakout Sessions

Grade Band	Title	Speakers	Description
K-5	Supporting Students' Understanding of Addition & Subtraction Problem Types	Ana Floyd	Participants will explore addition and subtraction outlined in our state math standards. We will examine how learners interpret these and discuss instructional strategies that (or hinder) students' understanding of these various problem types.
K-5	Creating Powerful Experiences in Elementary Math	Brandi Newell	Educators will explore ways to facilitate mathematical instruction to empower students to engage in deep mathematical thinking. Participants will examine strategies for promoting student reasoning and meaningful mathematical experiences aligned to core standards in the context of rich, high-quality tasks designed to strengthen problem-solving skills.
6-12	Progressive Representation in Ratios	Ruchi Agarwal & Akeala Durham	Many students struggle with proportional reasoning. Instruction often jumps to procedures and equations without introducing a practical, visual strategy that uses ratios, number lines, and equations to build conceptual understanding. Participants will explore various representations supported by research to strengthen multiplicative thinking and reduce common misconceptions about additive thinking. Through discussion and analysis of student work, participants will experience how to move from concrete reasoning to algebraic thinking. Attendees will leave with ready-to-use strategies and a questioning technique.

			implemented immediate
9-12	Procedural Fluency through Conceptual Understanding	John Pritchett	One of two motivations for students as they learn the right answer or to understand. We ask a similar choice - teach for answer, or teach for understanding. We will take a look at how motivations interact in
6-12	Teacher Knowledge and Implementation of NCTM's Mathematics Teaching Practices	Amanda Polluck	In 2014, NCTM published Principles to Actions on Mathematics Teaching meant to guide teachers quality math education. It delves into undergraduate research conducted on teachers' implementation, and provides usefulness of the MTP. We interviewed and asked about barriers that they see in these practices. The report identifies practices recommended for professional development and practices that are beneficial

11:00 Breakout Sessions

Grade Band	Title	Speakers	Description
K-5	Motivating Mathematicians Through Student Choice	Ashley Tang-Halverson	Math class provides students with an amazing opportunity to take ownership of their learning in a variety of ways. We will provide the options! The session will focus on increasing student motivation through the development of meaningful tasks that allow students to be emotionally invested in their learning.
K-5	Making Numbers Make Sense: Strengthening Instruction Through Number Sense	Nadia Bennett & Marcie Boutin	Strong number sense is a key to mathematical understanding. In this interactive session, participants will explore instructional strategies to develop flexible thinking and understanding in mathematics through hands-on tasks, analysis, and critical thinking, and classroom applications. Educators will learn how to build number sense instruction into their students' reasoning rather than relying solely on rote memorization.
6-8	Creating Active STEM Thinkers	Laura Rulison-Lange	Experience the innovative format and learn unique strategies to promote deep product while incorporating experiential mathematics. Participants will gain a deeper understanding of linear functions through a series of investigations. Participants receive sample new Classroom Materials and Connected Mathematics Lab-Aids!
6-12	From Doing to Thinking: Tasks That Support Student Confidence	Angonique Calhoun-Minnis	This session explores how task design can move students from doing math to thinking math. We will discuss access, engagement, and how to support student confidence across grades 6–12.
6-12	Purposeful Planning	Christina Ina	Purposeful Planning with

			engagement and growth. Standards based instruction, data along with learning supports, intentional practice increases mastery. Low levels of learning and in particular -- from end target -- will help educators reflect on where their trajectory of high growth
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12:00 Breakout Sessions

Grade Band	Title	Speakers	Description
K-5	Hands-On to Minds-On: Connecting manipulatives to understanding	Dustin Best	Explore how to move from “only” by using the C-R routines experiencing tasks as planning concrete, representing abstract moves.
K-5	Tessellating the Planar Surface	Charlene Sheets	Impacting math literacy routines into education through the Snack N Math Elementary math is being context! Hands-on activities for conference participants
6-8	Engaging Students in Their Own Learning and Growth	Christina Ina	Virtual Data Walls used by educators in coaches, increases their intrinsic motivation students become engaged in progress, it is up to us to build on this with engaging activities that access their conceptual understanding and math reasoning to solve problems. This session will include activities for middle school educators can use in their classrooms.
6-12	Developing Student Reasoning with Desmos	Josh Mata & Angonique Calhoun-Minnis	Participants will engage in learning through exploring the various ways Desmos can support student learning and how it can remove barriers to be doing math along with Desmos to see first hand how students access to graphing. And lastly participants will share session takeaways.
6-12	Modeling the World: Bringing Functions to Life with Data	Aleksandra Schilis	Everyone seems to agree it's hard—both to teach and to learn—are everywhere, from science to economics to the technology.

			use every day. This in invites teachers to red and joy of teaching fun real-world modeling an Using examples from curriculum, participant hands-on activities wit model patterns, make explore key ideas suc change and linear rela visualization, discussi coding tools, teachers how modeling helps s functions not as abstra tools for understanding
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