

# LIVE Sessions SATURDAY April 17th

<p><b>1</b> <span style="background-color: orange; padding: 2px 10px;">8:15 AM</span></p> <p>Grade Level(s): PK-2, 3-5</p> <p><b>Focusing on Students' Thinking in Remote Learning Classrooms</b></p> <p>Basing instruction on students' mathematical thinking is challenging when teaching math remotely. This session will share suggestions from CGI teachers on posing problems, supporting students to use their own strategies and finding ways for students to share their ideas with each other during remote learning. Tools and templates will be shared.</p> <p><b>Speaker: Linda Levi</b> CGI Math Teacher Learning Center</p>	<p><b>2</b> <span style="float: right;">8:15 AM</span></p> <p>Grade Level(s): General Session</p> <p><b>A brief history (and imagining) of assessment</b></p> <p>This session examines how standardized tests have impacted student learning and identity over the 20th and early 21st century. We'll also look ahead, considering more progressive systems that yield better insight into student knowhow while enhancing student mathematical identity.</p> <p><b>Speaker: Geoff Krall</b> University of Wyoming</p>
<p><b>3</b> <span style="background-color: green; padding: 2px 10px;">8:15 AM</span></p> <p>Grade Level(s): College</p> <p><b>Beyond Placement: Normandale Pilot Data with ALEKS Placement</b></p> <p>Join one of your peers Mark Arhens from Normandale Community College and Justin McCord from McGraw Hill Education to learn about ALEKS Placement, Preparation and Learning.</p> <p>Justin will share a brief overview of how ALEKS Placement Preparation and Learning works, while Mark showcases data for Normandale's successful pilot.</p> <p><b>Speakers: Mark Ahrens, Justin McCord</b> Normandale Community College</p>	<p><b>4</b> <span style="float: right;">8:15 AM</span></p> <p>Grade Level(s): 6-8, 9-12, College, General Session</p> <p><b>The scholarship of supporting STEM students in college</b></p> <p>Find out what supports an NSF grant recently provided for STEM students at Bemidji State. How a learning community helped students succeed in the rigorous world of collegiate STEM programs. Are you preparing your students to succeed in this realm?</p> <p><b>Speakers: Todd Frauenholtz, Jenna O'Dell</b> Bemidji State University</p>
<p><b>5</b> <span style="background-color: blue; padding: 2px 10px;">8:15 AM</span></p> <p>Grade Level(s): Adult Learner (ABE)</p> <p><b>Adult Education supporting Developmental Education on Campus</b></p> <p>The Lake Superior College math department is upgrading developmental math to better prepare students for college math. Students will be able to enter college level courses with meaningful preparation and alignment to program of study. Adult Education supports this mission!</p> <p><b>Speaker: Jody Greniger</b> ISD 709 Duluth Public School</p>	<p><b>6</b> <span style="background-color: yellow; padding: 2px 10px;">8:15 AM</span></p> <p>Grade Level(s): 6-8, 9-12</p> <p><b>Social Justice and Math</b></p> <p>Get your students to look at social justice issues through the lens of mathematics. Students examine data and statistics around mathematicians and how to use math to make an impact. This session is for you to gather and share ideas and resources.</p> <p><b>Speaker: May Vang</b> St. Paul Public Schools</p>

Grade Level Color Bands

Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
General Session			

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<p><b>7</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12</p> <p><b>Area Models to Teach Multiplying, Dividing and Factoring Polynomials</b></p> <p>Participants will be actively engaged in using algebra tiles and an area model to multiply polynomials. Algebra tiles will then be used for factoring and completing the square. Finally, we will use an area model for polynomial long division. The tiles support the transition from a concrete (manipulative) to an abstract (paper and pencil) model of mathematics.</p> <p><b>Speakers:</b> Lisa Comfort, Becki Schmidt CPM Educational Program</p>	<p><b>8</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12, General Session</p> <p><b>Key Takeaways for Post-Pandemic Teaching</b></p> <p>Join us as we share some key takeaways we discovered from pandemic teaching in our online and blended mathematics classrooms that have proven to be extremely helpful for our students and strategies that we will carry over into post-pandemic teaching.</p> <p><b>Speakers:</b> Kate Erhardt, Gina Wilson, Shawn Breidenstein Mounds View Public Schools</p>				
<p><b>9</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8</p> <p><b>Conceptual Tools to Visualize Integers and Variables</b></p> <p>In this session for the middle school math classroom, we will manipulate algebra tiles in a variety of ways in an effort to make the world of variables more conceptually relevant and hands-on for our students. Participants for this session will benefit from practicing the problems in teams while experiencing the facilitation and questioning in a student centered classroom.</p> <p><b>Speakers:</b> Jeremiah Morgan, Nicole Goerges CPM Educational Program</p>	<p><b>10</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12, College</p> <p><b>Activities in AP Calculus for Differential Equations</b></p> <p>Delve into the AP<sup>®</sup> Mathematical Practices (MPs) with differential equations. We will use collaborative work structures to develop the MPs with slope fields, Euler's Method and separable DEs. Activities, inspired by the 2019 CED, include a card sort, group whiteboarding, gallery walk, google slide, and technology exploration.</p> <p><b>Speaker:</b> Karen Hyers North St Paul-Maplewood-Oakdale Schools</p>				
<p><b>12</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5</p> <p><b>STEM Resources You Can Use Tomorrow</b></p> <p>Attendees will receive electronic resources for 8 topics and choose which are discussed. Examples: Whole/fraction number talks, coding clubs, Twitter PLNs, mixed grade computational thinking activities, virtual connections to scientists and a building wide microloan using Kiva.org.</p> <p><b>Speaker:</b> Mark Nechanicky Albert Lea Area Schools</p>	<p><b>13</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p><b>Know Your Role: How Bias, Racism and Pedagogy Conspire to Limit Student Success</b></p> <p>Every day, we educators have decisions to make that impact student's beyond the daily schedule. How do I provide on-ramps to grade-level instruction for students who are working to overcome historical inequities? How do I avoid further exacerbating those inequities? How do I restore the curiosity of students who have been failed by systems? As we ask ourselves these questions and more, closely examining instruction, content and discipline practices will unveil practical ways to honor students who are vulnerable to systemic racism.</p> <p><b>Speaker:</b> Megan Robinson Curriculum Associates</p>				
<p><b>14</b> <span style="float: right;"><b>8:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5, 6-8, 9-12, College, Adult Learner (ABE)</p> <p><b>Deepening Conceptual Understanding of Factors Using Jamboard.</b></p> <p>Online learning has changed how we teach, but not what we teach. This session will give participants the opportunity to collaborate as they dig into the conceptual understanding of factors, prime numbers and square roots with virtual manipulatives.</p> <p><b>Speakers:</b> Rebecca Strom, Marcie Vaiphei Mankato ISD77</p>	<p style="text-align: center;"><b>Grade Level Color Bands</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #4a86e8; color: white;">Adult Learners</td> <td style="background-color: #4caf50; color: white;">College</td> </tr> <tr> <td style="background-color: #ff9800; color: white;">Elementary (Pk-2; 3-5)</td> <td style="background-color: #ffc107; color: white;">Secondary (6-8; 9-12)</td> </tr> </table>	Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
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<p><b>21</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 3-5, 6-8</p> <p><b>The Power of Being Curious (part 2)</b></p> <p>In this interactive session, we model techniques presented in Part 1. In thinking classrooms, both the teacher and students are curious and that curiosity can be fertile ground for sense-making. Learn specific teacher moves that help your discussions thrive.</p> <p><b>Speakers:</b> Terry Wyberg, Christy Pettis, Janee Rivard-Johnson University of Minnesota</p>	<p><b>22</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): College</p> <p><b>Teaching Mathematics Through an Equity Lens in Virtual Settings</b></p> <p>This session is focused on creating equitable learning environments in virtual teaching settings.</p> <p><b>Speaker:</b> Mike Hall Johns Hopkins University</p>
<p><b>23</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, 9-12, College</p> <p><b>Making Proof a Classroom Practice</b></p> <p>Students often see proof as an obstacle, but for mathematicians proof should be a valuable means of communication. Learn and share some strategies for making the practice of proving propositions a part of your classroom practice, for both you and for students</p> <p><b>Speaker:</b> Will Roberts Roseville Area Schools ISD 623</p>	<p><b>24</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p><b>Teach Dividing by 5-9 in 25 Minutes</b></p> <p>Students learn a new simple way to use their hands to learn basic division facts that moves on to handless mastery that takes 5-10 minutes per number. This system is good for learning dividing by 5-9's. It is simple, fun, and most importantly builds confidence and competence. It involves TPR, is interactive, and involves visual, auditory, reading/writing and kinesthetic learning. It is the whole package. Seeing is believing. It will be helpful to have some 11x 17 construction paper around or some extra paper when participating.</p> <p><b>Speaker:</b> John Atella Mesabi East ISD 2711</p>
<p><b>25</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, 9-12, Adult Learner (ABE)</p> <p><b>Desmos Creation Station</b></p> <p>Tom and Andy created a lesson in the Teacher.Desmos.com and will share what they learned in the process of creating a lesson activity in Desmos.</p> <p><b>Speakers:</b> Andy Albee, Tom Kroeger Robbinsdale ISD 281</p>	<p><b>26</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, Teacher Coaching 6-8</p> <p><b>Teaching Math Through a Social Justice Lens</b></p> <p>Want to include social justice topics in your math lessons? Want to include and engage all of your students in the class? Come and find out how we taught math through a social justice lens.</p> <p><b>Speakers:</b> Nichole Campbell, Peggy Nayar Anoka Hennepin Schools</p>

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<p><b>27</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 9-12, College</p> <p><b>Have your Students Use Agile/Scrum to Project Plan</b></p> <p>In the personalized classroom, students are responsible for their project planning. Many companies use Agile/Scrum to work in collaborative groups and project plan. This last year, I trained my students on how to Scrum and use Kanban boards to project plan. It is a true skill that can be used for PLCs, or any collaborative group. Come and experience a Scrum Sprint session to see what it feels like and how to get started in your classroom.</p> <p><b>Speaker: Shannon Seaver, NBCT</b> Edina Public Schools</p>	<p><b>28</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8</p> <p><b>Patterns with Purpose: Making Connections in Linear Algebra</b></p> <p>Join us for some engaging problem solving with patterns as we work together to shift between the multiple representations. Learn how students can make connections between a table, graph, rule, and pattern to understand and apply <math>y=mx+b</math> in multiple contexts.</p> <p><b>Speakers: Laura Bain, Cheryl Tucker</b> CPM Educational Program</p>
<p><b>29</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): PK-2, 3-5</p> <p><b>Manipulatives, Real and Virtual: Effectively Teaching the Standards</b></p> <p>Are you looking for ways to help students develop a strong conceptual understanding in math? Discover benefits of using virtual and traditional manipulatives to help every student better understand math as well as ways to use a variety of manipulatives.</p> <p><b>Speaker: Kevin Dykema</b> Mattawan Consolidated Schools</p>	<p><b>30</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, 9-12, College, Teacher Coaching 9-12</p> <p><b>Families of Functions Transformations FREE Online Video Course</b></p> <p>How to graph 16 parent functions – vertical/horizontal shifts, reflections, dilations, opposites, combination transformations. Modular – only use videos that students need – pre-algebra through calculus: linear, quadratic, exponential, trig, more... Augment in-class, flipped classroom, independent study, review. 220+ videos, 450+ graphs illustrated.</p> <p><b>Speaker: Tom Reardon</b> Austintown Local School District (Ohio)</p>
<p><b>31</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p><b>MCA Update, Grades 3-8 &amp; High School</b></p> <p>MDE will present updates, changes and answer questions about the MCA Math Assessment.</p> <p><b>Speakers: Jennifer Dugan, Penny Houtz, Angela Hochstetter, Michael Huberty</b> Minnesota Department of Education</p>	<p><b>32</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p><b>Rolling into Math - Games for Operational Fluency</b></p> <p>Participants will learn and play a variety of math games using dice that focus on the following concepts: multiplication fluency and remediation, multi-digit operations with whole numbers and decimals, mixed operations and order of operations. Ideas for differentiating the games, assess learning will be shared throughout. Gameboards provided. <b>PARTICIPANTS NEED TO BRING 7 REGULAR DICE.</b> This is a great workshop if you are still teaching in a virtual setting, or in-person.</p> <p><b>Speaker: John Felling</b> Box Cars and One-Eyed Jacks</p>
<p><b>33</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): PK-2, 3-5, 6-8, 9-12</p> <p><b>Ignite! Making Minnesota Math Come to Life</b></p> <p>Cultivate a growth mindset and encourage your students to wonder, discover, and keep trying! Dig deeper into Ignite! authored by Dr. Raj Shah and learn ways to promote growth mindset in your classroom. Learn how by specifically covering Minnesota's unique Math standards you can target knowledge gaps, promotes retention, and transform learning!</p> <p><b>Speakers: Dawn Conzemius, Christina McColley, Tanya Winchester</b> McGraw Hill</p>	<p><b>34</b> <span style="float: right;"><b>9:45 AM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, 9-12</p> <p><b>Charty Party: All Ages - Card Game</b></p> <p>Charty Party is the game of absurdly funny charts! Combine charts with humorous x and y axes for mathematical fun! Participants will experience game play ideas from my own classroom, see students examples, and brainstorm their own.</p> <p><b>Speaker: Dan Bungert</b> District Affiliation: ISD 196      Exhibitor Affiliation:</p>

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<p><b>41</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Teaching Mathematics For Social Justice</b></p> <p>This session will provide you with the opportunity to make sense of students' current mathematics experience, experience a reimagined mathematics experience focused on social justice, and learn the key components to recreate this experience in your educational environment.</p> <p><b>Speakers:</b> Kristopher Childs, Ja'Lise C. Hammond K Childs Solutions</p>	<p><b>42</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12</p> <p style="text-align: center;"><b>Assessment Can Happen Virtually Anywhere!</b></p> <p>Want to explore some strategies to create equitable assessments? Come to our session to reflect on your current assessment practices and explore strategies which help your students take ownership of their learning!</p> <p><b>Speakers:</b> Nicole Goerges, Jeremiah Morgan CPM Educational Program</p>
<p><b>43</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): College</p> <p style="text-align: center;"><b>Introduction to Edfinity: NSF-supported, low-cost, adaptive homework system.</b></p> <p>Attend this workshop to learn how to create adaptive, affordable online homework for ANY commercial or OER textbook in 24 minutes or less, and why 250+ institutions have migrated from WebAssign, MyMathLab, ALEKS, and other legacy online homework systems.</p> <p><b>Speaker:</b> SId Grover University of Minnesota</p>	<p><b>44</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12, College</p> <p style="text-align: center;"><b>Creating Engaging Review Activities</b></p> <p>Creating student participation during exam review days can be a struggle. In this talk, we will present some review activities we have used and invite attendees to share their ideas as well.</p> <p><b>Speakers:</b> Sam Judnick, Nick Haverhals St. Cloud State University</p>
<p><b>45</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12, College, Adult Learner (ABE)</p> <p style="text-align: center;"><b>Self Management Skills to Build Independent Math Learners</b></p> <p>With the challenges over the past year, students are expected to manage their own learning in ways they may have never done before. Join us to learn how to teach and foster key self-management skills in your students to help build stronger mathematicians!</p> <p><b>Speakers:</b> Amber Delliger, Cindy Secord Metro North Adult Education</p>	<p><b>46</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12</p> <p style="text-align: center;"><b>Diving into Desmos Activity Builder</b></p> <p>Are you just getting started with Desmos Activity Builder and ready to learn more? Join us to learn how to use Desmos Activities to provide opportunities for student discovery and facilitate conversations around student work. Come play with math!</p> <p><b>Speakers:</b> Greta Bergman, Ashley Goetz Royalton Public Schools</p>

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General Session			

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<p><b>47</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12</p> <p style="text-align: center;"><b>CTE Algebra: Teaching Math Standards in Context</b></p> <p>Learn how a math teacher and an agriculture teacher teamed up to engage students in algebra standards in a CTE context. Instructors will share experiences, resources, and lessons learned in trying to increase relevance in math instruction.</p> <p><b>Speakers: Liz Hatfield, Christa Williamson</b> Kerkhoven Murdock Sunburg ISD 775</p>	<p><b>48</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Bringing CGI into the Middle School and Beyond</b></p> <p>Cognitively Guided Instruction has focused on elementary. How can we use this knowledge to benefit students moving from arithmetic to algebraic thinking? This session will discuss the research and how using these strategies creates deeper mathematical understanding for all students.</p> <p><b>Speaker: Jill Bue</b> Roseville Area Schools</p>				
<p><b>50</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12</p> <p style="text-align: center;"><b>Connecting Mathematics to the World Around Us</b></p> <p>Secondary mathematics is often disconnected from the world. Many "grown up" concepts such as percent underlie contexts like herd immunity, false positives, or climate change. Investigating situations involving real data can help students make sense of the world</p> <p><b>Speaker: Gail Burrill</b> Michigan State University</p>	<p><b>51</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Questions about Reviewing the Math Standards?</b></p> <p>The Minnesota standards for mathematics will be reviewed during the 2021-22 school year. Please view the recorded session to learn about the review process and how you can be involved. This session is provided to begin to collect your feedback and to address questions you may have about the standards revision process.</p> <p><b>Speakers: Susan Ingvalson, Doug Paulson</b> Minnesota Department of Education</p>				
<p><b>52</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5</p> <p style="text-align: center;"><b>Number Line to 10,000,000 and Other Math Manipulatives</b></p> <p>Join us for a demonstration by Jim Franklin, teacher of special education from Rome, GA, who invented a number line to 10,000,000 and other math manipulatives that address the standards of fractions, decimals, money, elapsed time, capacity, and weight. Learn tips and strategies that are applicable for all students, including students with visual impairments.</p> <p><b>Speaker: Jim Franklin</b> Rome City Schools, Georgia</p>	<p><b>53</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Foe Tha Love of \$</b></p> <p>Developing a financial literacy curriculum for urban learners grades K-12 participants will see examples of units as we create learners who understand the importance of keeping money in their community, investing strategies, fund higher education, homes, and cars, and leave their next generation more financially stable.</p> <p><b>Speakers: Ishmael Robinson,</b> K-12 Math Supervisor St Paul</p>				
<p><b>54</b> <span style="float: right;"><b>11:15 AM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Productive Struggle: Students' Emotions while Problem Solving</b></p> <p>Join us to learn about students' emotions while they are engaged in problem solving. We will share the problems we used to encourage 4th and 5th grade students in productive struggle. We will share problems, student work, and videos.</p> <p><b>Speakers: Todd Frauenholtz, Jenna O'Dell, Kylie Higgins</b> Bemidji State University</p>	<p style="text-align: center;"><b>Grade Level Color Bands</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #4a90e2; color: white; padding: 10px;">Adult Learners</td> <td style="background-color: #27ae60; color: white; padding: 10px;">College</td> </tr> <tr> <td style="background-color: #f39c12; color: white; padding: 10px;">Elementary (Pk-2; 3-5)</td> <td style="background-color: #f1c40f; color: white; padding: 10px;">Secondary (6-8; 9-12)</td> </tr> </table>	Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
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<p><b>61</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12</p> <p style="text-align: center;"><b>Mathematical Discourse: A Look at Why and How</b></p> <p>Join in this session to explore strategies for engaging each and every student in rich mathematical discourse. Students really want to talk about mathematics and we need them to talk! So, let's discuss opportunities to get our students talking math!</p> <p><b>Speaker: Trena Wilkerson</b> National Council of Teachers of Mathematics</p>	<p><b>62</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5, 6-8, General Session</p> <p style="text-align: center;"><b>Interactive Google Slides for Math Teachers</b></p> <p>Learn to use the standard tools in Slides to create interactive and engaging experiences that develop students' problem solving skills and support productive discussions. Session focuses on a game for grades 3-5, but the techniques are appropriate/adaptable for K-12.</p> <p><b>Speaker: Christy Pettis</b> University of Wisconsin River Falls</p>
<p><b>63</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12, College</p> <p style="text-align: center;"><b>Investigating Procedural Flexibility in Algebra Instruction</b></p> <p>Procedural flexibility, in AI@CC's EQIPM protocol, describes the degree to which instructors present mathematics in a way that allows students to develop flexibility in problem-solving. In this session, findings from Algebra Instruction (AI@CC) and implications for teaching will be discussed.</p> <p><b>Speakers: Dexter Lim, Bismark Akoto, Nicole Lang, Patrick</b> North Hennepin Community College</p>	<p><b>64</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): College</p> <p style="text-align: center;"><b>Using D2L for Placement</b></p> <p>Learn how to use D2L to create math placement tools to help get students placed into the correct math courses when they come to our colleges.</p> <p><b>Speaker: Sara Van Asten</b> North Hennepin Community College</p>
<p><b>65</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12, Adult Learner (ABE)</p> <p style="text-align: center;"><b>Playing Math Games online</b></p> <p>We'll spend some time investigating games that can be played online to foster mathematical and logical thinking.</p> <p><b>Speaker: Andy Albee</b> Robbinsdale ISD 281</p>	<p><b>66</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, Teacher Coaching 6-8</p> <p style="text-align: center;"><b>Individualization Model and Competency-based Education in Algebra 8 Class</b></p> <p>This session will discuss an individualized model to teach Algebra 8 for a class of 27 students. Individualization is when the pace of learning is adjusted to meet the needs of each student. Each student took a pre-assessment and mastered their learning targets at their own speed. With this approach, the emphasis shifts from seat time to mastery. Students become self-motivated as they achieve their learning goals and that engagement, ownership and agency minimizes behavioral problems. Throughout this process, each student has an online portfolio that is shared with their parents to track their learning.</p> <p><b>Speaker: Abir Ismail</b> Minneapolis Public School</p>

## Grade Level Color Bands

Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
General Session			

# LIVE Sessions SATURDAY April 17th

<p><b>67</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 9-12, College</p> <p style="text-align: center;"><b>How to have collaborative groups in a Distance Learning or Online class</b></p> <p>How can you make sure that your collaborative groups are learning and staying accountable. How can you know if they are even meeting when you are in an online only situation. I will share some of the things I have learned this year and open it up for others to share as well.</p> <p><b>Speaker: Shannon Seaver</b> Edina Public Schools</p>	<p><b>68</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, Teacher Coaching 6-8</p> <p style="text-align: center;"><b>Games and Activities for Middle School Math!</b></p> <p>Participants will experience hands-on activities in data collection, game simulation, probability, and integer operations. This session is very interactive and the participants will leave with activities that create a high level of engagement and build equity among their students.</p> <p><b>Speakers: Cheryl Tucker, Laura Bain</b> CPM Educational Program Formerly Bloomington Public Schools</p>				
<p><b>69</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Thinking Classroom 2.0</b></p> <p>You know what Thinking Classroom is. Hopefully you have been able to try it in your classroom. Now you have questions and want more detail. This session will focus on creating lessons, teacher moves, and wrapping up the lesson. It will also allow for questions and discussions</p> <p><b>Speaker: Jessica Strom</b> Win-E-Mac</p>	<p><b>70</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Writing A Test Question That's Actually Good</b></p> <p>Most assessments provided by curricula and test engines provide unimaginative questions and limiting format. I'll share some of the best questions I've written and collected, focusing on best practices for writing, adapting, and formatting assessments. Bring your assessments to discuss and improve!</p> <p><b>Speaker: Mike Reiners</b> Christ's Household of Faith School</p>				
<p><b>71</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Example Skills for "Exceeds" and "Meets" by BENCHMARK</b></p> <p>Discover specific examples for each benchmark and grade that describe what a student scoring in the Exceeds, Meets, etc. level on the MCA typically knows and can do. We'll practice evaluating curriculum and instructional materials using this resource.</p> <p><b>Speakers: Angela Hochstetter, Michael Huberty</b> Minnesota Department of Education</p>	<p><b>72</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): PK-2, 3-5</p> <p style="text-align: center;"><b>Shake UP Your Fact Fluency Practice</b></p> <p>We need engaging hands-on activities and games to help our primary students rebuild the gaps from covid. Come prepared to play our favorite regular dice games that help teach the following concepts: beginning addition and subtraction including doubles, make 10 and 20, commutative and associative properties, count on and back, using number line strategies, mental math and more. Participants will receive gameboards, assessment checklists, see student samples and come away with ideas to differentiate the activities to meet the needs of all students in your in person or virtual classrooms. PARTICIPANTS WILL NEED 7 REGULAR DICE.</p> <p><b>Speaker: Jane Felling</b> Box Cars and One-Eyed Jacks</p>				
<p><b>73</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Math Acceleration for Gifted Students Using Workshop Model</b></p> <p>A Math Pilot Program is currently in progress in our district. It is to offer single subject math acceleration of up to two grade levels to elementary students without students needing to leave their regular classroom. I will present what a success this has been for our school.</p> <p><b>Speaker: Jennifer Siebenaler</b> ISD 196</p>	<p><b>74</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Balancing work and home, a starter's guide.</b></p> <p>Teaching is tough--there is no doubt. Balancing work life and personal life can be difficult, especially during the first few years of teaching. This session will provide ways to start having a better balance between work and home.</p> <p><b>Speakers: Kristen Helland, May Vang Swanson</b> Barnum Public Schools -- ISD 91</p>				
<p><b>75</b> <span style="float: right;"><b>1:15 PM</b></span></p> <p style="text-align: center;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Reimagining face-to-face and remote instruction</b></p> <p>Harness the affordances of face-to-face instruction with remote learning in any setting. This workshop will engage you in a math routine and rich task with purposeful discussion in a setting with some participants face-to-face and others joining remotely.</p> <p><b>Speaker: Theresa Wills</b> George Mason University</p>	<p style="text-align: center;"><b>Grade Level Color Bands</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #4a86e8; color: white;">Adult Learners</td> <td style="background-color: #27ae60; color: white;">College</td> </tr> <tr> <td style="background-color: #f39c12; color: white;">Elementary (Pk-2; 3-5)</td> <td style="background-color: #f1c40f; color: white;">Secondary (6-8; 9-12)</td> </tr> </table>	Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
Adult Learners	College				
Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)				

# LIVE Sessions SATURDAY April 17th

<p><b>81</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 3-5, 6-8, 9-12, College</p> <p style="text-align: center;"><b>Who need definitions? Who gets to write them?</b></p> <p>Definitions are essential building blocks in mathematics. Where do they come from? When are they necessary? Do they change? We'll engage in classroom-ready activities together that build the need for definitions, and offer opportunities to write or refine them.</p> <p><b>Speaker: Christopher Danielson</b> None</p>	<p><b>82</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8, 9-12</p> <p style="text-align: center;"><b>Moving forward during the first years of teaching</b></p> <p>A panel of three early career teachers will engage in a conversation about how beginning teachers cope with planning interesting lessons, engaging students, keeping up with grading, being proactive with classroom management and developing mentoring relationships with colleagues</p> <p><b>Speakers: Terry Wyberg, Christy Pettis</b> University of Minnesota</p>
<p><b>83</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): College</p> <p style="text-align: center;"><b>Accelerating Developmental Education through Corequisites</b></p> <p>More students complete college-level mathematics when colleges implement corequisite courses to accelerate students through developmental mathematics. We'll share national research, local plans for implementation, and a roadmap for successful corequisite design on your campus. Questions and discussions are encouraged!</p> <p><b>Speaker: Katie Smieja</b></p>	<p><b>84</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 9-12</p> <p style="text-align: center;"><b>Best Teacher Choice I've Made: Written Assessments</b></p> <p>Our Algebra 2 team is having all students write technical math papers instead of giving traditional math tests. In this session, you will hear about how to implement, support all learners, and structure grading to get students to buy in.</p> <p><b>Speaker: Rachel Baker</b> Saint Paul Public Schools</p>
<p><b>85</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): Adult Learner (ABE)</p> <p style="text-align: center;"><b>They've Got This: Fostering Independent Math Learners</b></p> <p>Lectures and worksheets. We often use these lesson elements, but how effective are they at creating independent mathematicians? In this session, you will gain ideas for structuring activities that foster students' ability and confidence to learn without the teacher present.</p> <p><b>Speaker: Lindsey Pust</b> ABE</p>	<p><b>86</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: center;">Grade Level(s): 6-8</p> <p style="text-align: center;"><b>Manipulatives in Middle School? Absolutely!</b></p> <p>Do your middle school students need some hands-on activities to help develop their mathematical concepts? Discover benefits of manipulatives in middle school to help students understand math as well as some ways to use a variety of manipulatives.</p> <p><b>Speaker: Kevin Dykema</b> Mattawan Consolidated Schools</p>

## Grade Level Color Bands

Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
General Session			

# LIVE Sessions SATURDAY April 17th

<p><b>87</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8, 9-12</p> <p style="text-align: center;"><b>Teaching with Equity in a Remote Learning Environment</b></p> <p>This session will provide an opportunity for participants to engage in a task within a team where equity is not evident. Then through analyzing, reading research, and teacher tips we will provide a learning opportunity for teachers to reflect on needed shifts within their own classroom.</p> <p><b>Speakers:</b> Becki Schmidt, Lisa Comfort CPM</p>	<p><b>88</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 6-8</p> <p style="text-align: center;"><b>What went wrong? Using error analysis</b></p> <p>Having students analyze incorrectly worked examples is engaging and gets students reflecting on their own understanding while talking about mathematics. You will participate in sample activities, share your own experiences, and leave ready to implement error analysis in your classroom.</p> <p><b>Speaker:</b> Crystal Vesperman Johns Hopkins Center for Talented Youth</p>
<p><b>89</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5</p> <p style="text-align: center;"><b>Games for Your Elementary Classroom</b></p> <p>Join us to learn how we ignite elementary students' excitement in mathematics through games. We will share six different games that elementary students love. These games will be focused on helping students develop basic facts and number sense. Leave with games that you can use to engage your students in mathematics.</p> <p><b>Speakers:</b> Jenna O'Dell, Ariana Russell, Alexys Thompson; M Bemidji State University</p>	<p><b>90</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 9-12, College</p> <p style="text-align: center;"><b>A Big Idea in Calculus: Accumulation</b></p> <p>Students often get lost in procedures losing sight of the bigger picture. We will consider what can and cannot be learned from different representations of accumulation, discuss typical student errors, and think about accumulation in the context of the pandemic.</p> <p><b>Speaker:</b> Gail Burrill Michigan</p>
<p><b>91</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Innovative Practices for More Equitable Experiences for Students</b></p> <p>Join a panel of Minnesota educators to discuss considerations for the 2021-22 school year. Panelists will highlight innovations in their district designed to maximize student learning through more equitable learning experiences. Participants will also be able to submit their questions.</p> <p><b>Speaker:</b> Susan Ingvalson Minnesota Department of Education</p>	<p><b>92</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): 3-5, 6-8</p> <p style="text-align: center;"><b>Data and Advocacy: The Intersection of Race, Data and Mathematics Instruction</b></p> <p>Districts all over the nation are wrestling with the clear and present danger of inequities in our educational system. The access gap is very real. Many talented teachers and educational leaders have realized that the goal of equity requires honest insight into the current content knowledge of students, increased bias awareness, and a sincere shift in instructional design. In this workshop, participants will explore the combinations of data that lead to targeted teacher actions. Attendees will experience the difference between data practices that sustain inequity and data practices that support equity initiatives. This will be practical, transformative, inspirational, and fun!</p> <p><b>Speaker:</b> Tyrone Holmes Districts across the country</p>
<p><b>93</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Funneling or Focusing: Questioning to Develop Math Mindset</b></p> <p>We will explore how a teacher's expectations/directions impact how students perform and how the teacher might view student thinking and develop a growth mindset. How funneling questions vs. focusing questions lead to different artifacts to inform evidence of learning.</p> <p><b>Speakers:</b> Ann Miller, Jen Coenen Rochester Public Schools</p>	<p><b>94</b> <span style="float: right;"><b>2:45 PM</b></span></p> <p style="text-align: right;">Grade Level(s): General Session</p> <p style="text-align: center;"><b>Using a LightBoard For More Engaging Online Lectures</b></p> <p>A lightboard is piece of glass that serves as a whiteboard but allows presenters to face the camera while recording lectures. This presentation will provide the basics of how a lightboard is constructed and examples of the resulting videos.</p> <p><b>Speaker:</b> Nick Haverhasls N/A</p>

## Grade Level Color Bands

Adult Learners	College	Elementary (Pk-2; 3-5)	Secondary (6-8; 9-12)
General Session			