
CGI Empowered: Online Events!

Session Descriptions

Scaffolding Young Children's Mathematical Thinking as they Solve Compare Problems

Melissa Soto

Tuesday, November 14, 2023

Grade Band: K-2

Young children can solve a variety of mathematical story problems by modeling the action that occurs within the problem (Carpenter et al., 1993). But what happens when there isn't an overt action of joining or separating, rather, students are asked to compare two different sets? This presentation will present strategies to support young children in making sense of compare story problem situations and by adjusting the wording of problems to connect to children's backgrounds and experiences, which will provide entry points for students to engage and make sense of the mathematics and opportunities to communicate their mathematical ideas. These strategies also address access and equity by removing barriers, specifically, removing confusing language and/or contexts. By adjusting compare problems to make them more accessible, all children can gain conceptual understanding rather than relying on tricks to solve problems.

A CGI-Approach to Algebraic Generalization: The Case of Two Middle School Students' Emergent Reasoning about Generalization

Randy Philipp, Nic Venson, Jiawei Huang

Grade Band: 6-9

Monday, Nov 20, 2023

Algebra might be viewed as generalized arithmetic, but where does the generalization reside? For example, $3n + 1$ is a generalized statement, but we want students to arrive at that statement by experiencing the reasoning associated with the generalization process. As such, we want generalization to be viewed more as a process students experience than as a destination at which one arrives. This case of two rising 7th-graders will address an approach to algebraic generalization using pattern tasks that honors student thinking.

Guiding Parents Through Their Child's CGI Journey

Jennifer Rolf

Grade Band: K-6

Tuesday, December 12, 2023

How do we support our parents in understanding the importance of honoring what their children know and how they naturally think about mathematics in our classrooms? During the session you will have the opportunity to explore a variety of strategies and resources to best guide parents in their own understanding of CGI and the impact it has on their children.

Looking at Data through Slow Reveal Graphs

Alison Williams and Sanjana Bryant

Tuesday, February 13, 2024

Grade Band: 2-8

Slow reveal graphs are an excellent way to bring student awareness and understanding to the realm of data science. We will share ways that this approach has elevated our classroom conversations and connected our mathematics to other content areas.

Launching Story Problems

Vicki Jacobs

Tuesday, Mar 12, 2024

Grade Band: K-5

Let's talk about how we introduce (or "launch") story problems. Launches are typically short but tricky to implement! We want to empower children as sensemakers but not tell them how to solve problems. This session will use video examples to showcase three launching approaches teachers have successfully used to set the stage for children's sensemaking during problem solving. Join us to enhance your launching toolbox.

Using Games to Build Fact Fluency and Relational Thinking

Rachel Matteson

Thursday, March 21, 2024 (Grades 3-5)

Tuesday, April 16, 2024 (Grades K-2)

What provides immediate feedback, allows for a variety of strategies and entry points, gives students an opportunity to determine the truth, helps to construct a network of relationships, and is highly intrinsically motivating while building on fact fluency and relational thinking? GAMES, of course! Learn about games you can teach your students and how you can formatively assess your students as they play.

Supporting without Showing

Stephanie Sullins

Grade Band: 3-5

Tuesday, Apr 9, 2024

As teachers, our first inclination is to always help! Learn how to support your students in mathematics without jumping in to save the day. Learn how to support our students' productive struggle in math through the questions we ask.

Small Humans, Big Math: Young Children's Mathematical Brilliance

Nick Johnson

Grades: PreK, TK, K

Tuesday, May 14, 2024

To the untrained eye, the mathematics of early childhood might appear simple and straightforward. Join us for this interactive session where we will examine findings from a new project that highlights the complex, exciting mathematical work of our youngest students!

Space is Limited so [Register Here](#) Today!

\$20 per event or \$75 for all 9!

Link not working? Try <https://forms.gle/vHE2LuXuy8JVPnGi6>