



2025 PCTM ANNUAL CONFERENCE

Schedule Overview

Thursday, July 24th

8:00 - 9:00 AM **IGNITE/PCTM Awards (Ballroom ABC)**

9:15 - 10:15 AM **Breakout Sessions**

- Maximizing the Benefits of Mathematics Routines that Promote Open Discussion - Emily Mainzer - All Grades (**Central ABC**)
- Instructional Innovation: a Natural Outcome of SPMs, CDT Data & AI - Dr. Carrie Soliday, Dr. Dan Richards - All Grades (**Innovamat 1**)
- How to Increase Your Math Outcomes in 25/26 Through Engagement and Joy– Phyllis Hillwig, Alec Marschke, Eurekii – K-8 (**Innovamat 2**)
- Building a K-5 Math Intervention Program: From Systems to Support - Jonathan Regino - K-5 (**Heritage**)
- The Calculus Ladder! Visualizing the Fundamental Theorem of Calculus via the Context of Motion - Derrick Keister - 7-12 (**Keystone**)

10:30 - 11:30 AM **Readers Read. Writers Write. Mathers Math! – Deborah Peart Crayton (Central ABC)**

11:30 - 12:30 PM **Enjoy lunch and visit the vendor tables!**

The buffet will be set up outside Central ABC. Enjoy your lunch in Central ABC.

12:45 - 1:45 PM **Breakout Sessions**

- Leveraging AI to Generate Card Sorts - Daniel Kaufmann - All Grades (**Central ABC**)
- Fluency Beyond Facts: Developing Number Sense Through Productive Practice – Rob Baier, Innovamat - K-6 (**Innovamat 1**)
- Passing a Test \neq Future Understanding - How to structure a middle school classroom to ensure retention is as crucial as mastery. - Ryan Kinzler - 7-9 (**Innovamat 2**)
- Using CDT Data to Create Individualized Student Learning OpportunitiesMath – Joelle Cooper – 6-10 (**Heritage**)
- Keystone Exam Strategies for Struggling Learner - Shawna Mukavetz, Eric Speight - 10-12 (**Keystone**)

2:00 - 3:00 PM **Breakout Sessions**

- Mastering the Flow: Building Effective Routines for Your Math Lessons - Jennifer Rinehimer, Theresa Silverman - All Grades (**Central ABC**)
- CDT to ChatGPT: Using AI to Identify Next Steps Based on CDT Results - Dr. Carrie Soliday, Dr. Dan Richards - All Grades (**Innovamat 1**)
- Real-World Math Activities for Informed Citizenship - Colleen Breen - 7-9 (**Innovamat 2**)



- Keys to Problem Solving – Teaching Children to Define and Penetrate a Problem - Bob Sun, First in Math - K-9 (**Heritage**)
- Using Multiple Representations to Aid Student Understanding - Marian E. Avery - 7-12 (**Keystone**)

3:15 - 4:15 PM Breakout Sessions

- Maximizing State Assessment Resources: An All-Year Approach - Amy Lena, Deputy Secretary of OESE and Dr. Megan Clementi, State Assessment Coordinator for Mathematics (**Central ABC**)
- Spot It Math Facts - A Twist on Using Patterns to Attain Addition and Subtraction Fact Fluency - Pat Peffley - K-3 (**Innovamat 2**)
- Fibonacci Gems to Foster Engagement - Jay Schiffman - All Grades (**Keystone**)

4:20 – 4:50 PM PCTM Business Meeting

5:00 – 6:00 PM Bonus Session

- Pennsylvania's Transition to Online Testing - Megan Clementi - All Grades (**Central ABC**)

6:30 - 8:30 PM Math Trivia Night!





2025 PCTM ANNUAL CONFERENCE

Schedule Overview

Friday, July 25th

8:00 - 9:00 AM Keynote: Technology that thinks with you, not for you – Eli Luberoff (Central ABC)

9:15 - 10:15 AM Breakout Sessions

- Telling isn't teaching! Using the 5 Practices to Facilitate Rich Mathematical Discussions in ALL Grade Levels – Teresa Brown - All Grades **(Central ABC)**
- Help Students Master Fractions in Arithmetic - Timothy W. Young - 4-12 **(Innovamat 1)**
- Using Rich Math Tasks to Promote - Bonnie Jenkins - K-3 **(Central E)**
- AP Precalculus for ALL: Access and Support for Your Students - Leigh Nataro - 10-12 **(Heritage)**
- Unit Origami and Three-Dimensional Models in Geometry - Marian E. Avery - 7-12 **(Keystone)**

10:30 - 11:30 AM Breakout Sessions

- Coding in the Math Classroom - Dana Morse, Texas Instruments – 4-12 **(Central ABC)**
- The Five Roles of Fractions in Mathematics - David A. Wiest - 4-6 **(Innovamat 1)**
- Stop Reinventing the Wheel - Using AI and your current resources to create meaningful tasks for students - Joelle Cooper – 7-12 **(Innovamat 2)**
- Making Sense of Mathematical Modelling and Ill-Defined Problems - David Costello - K-9 **(Heritage)**
- Clue Problems and Other Deductive Reasoning Tasks - J. Lyn Miller - 7-12 **(Keystone)**

11:30 - 12:45 PM Enjoy lunch and visit the vendor tables!

The buffet will be set up outside Central ABC. Enjoy your lunch in Central ABC.

12:45 - 1:45 PM Breakout Sessions

- Mathematics that Matters: Driving Student Success with Visible Learning - Lori Andrews, Dr. Lauren Wilson, Arlene Sheffo - All Grades **(Central ABC)**
- Making the Learning Stick: Using Brain Science to Help Our Students Retain Concepts – Jun Hunt, Zaner-Bloser – K-6 **(Innovamat 1)**
- What is needed for success in physics: number/symbol sense or prior math coursework? - Robert Cohen - 7-12 **(Innovamat 2)**
- Making Middle School Math Come Alive with Manipulatives, Games, and Activities – Astrida Lizins, CPM – 7-9 **(Heritage)**



2:00 - 3:00 PM Breakout Sessions

- Making Math Stick: Revisiting Concepts Throughout the Year - David Costello - K-9
(Central ABC)
- Great time to be a math person! Tiling a rectangle with Einstein, Penrose and Tetrominoes!
- Premalatha Junius, Ken Sullins - All Grades **(Innovamat 2)**
- Teaching Strategies that Maximize Student Engagement - Kelly Brent – 6-12 **(Heritage)**
- Math in Motion: Engaged Learning through Collaborative Algebra Activities - April Carter
- 7-12 **(Keystone)**

