

# LONG + LIVE + MATH: The National Institute 2018

## Session Descriptions

### Breakout Session A

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*Tuesday, 10:30am-12:00pm*

#### **The Carnegie Learning Classroom "The Carnegie Way"**

Bring your student hat and teacher hat to this session! Experience a Carnegie Learning demonstration lesson, as a student, to build an understanding of what a Carnegie Learning classroom should look like, sound like, and feel like. Then put on your teacher hat to debrief the role of the facilitator during the lesson, the observed teacher moves, and the potential impact on student learning.

Grades 6-12, First Year CL, Classroom Strategies

**SALON J**

**REGGIE REVERE**, Manager of School Partnerships

#### **6 Signs Of Unforgettable Lessons**

Why is it that people hear an urban legend one time and remember it for years? Why is it that students hear about a concept many, many times and barely remember anything? We'll explore six differences between these two ways of communicating information to see what we can learn to make our lessons unforgettable.

Grades K-12, Classroom Strategies, Leadership

**SALON H**

**ROBERT KAPLINSKY**, Math Teacher Specialist

#### **Algebra Tiles: Effectively Using Algebra Tiles in the Mathematics Classroom**

Have you ever wanted to help your students develop the conceptual understanding of combining like terms, solving equations, operations of polynomials, factoring polynomials and even completing the square? Join me in building concrete models of these procedures so students can make connections to these abstract mathematical concepts they often struggle with.

Grades 6-12, General, Mathematics Content

**SALON I**

**SUE HAMILTON**, Manager of School Partnerships

#### **Introducing the NEW Carnegie Learning High School Math Solution**

Going to be using the new High School Math Solution next year? Want to hear about these amazing text resources straight from the Development Team? Sandy and Amy will introduce you to the Carnegie Learning Way and discuss how the mathematics connects across the grade levels.

Grades 8-12, CL, Mathematics Content

**SALON E**

**SANDY BARTLE FINOCCHI**, Senior Academic Officer

**AMY JONES-LEWIS**, Director, Instructional Design

## The Concrete Representational Abstract Strategy with Geometric Structures

Want a great strategy that can be used at any grade level? Come discover how using the Concrete Representational Abstract strategy can support mathematical proficiency. Participants will engage in a geometry task around area and volume that is designed to scaffold understanding from the concrete to the abstract.

Grades K-12, Classroom Strategies, Mathematics Content, General

### **SALON F**

**LISA STRITTMATTER**, Manager of School Partnerships

**MICHAEL MORICI**, Manager of School Partnerships

## Creating a Community of Collaborators: Activities and Routines to Promote Collaboration

What does it mean to collaborate? How can we help students see the importance of collaboration? What can we do to facilitate the development of skills and characteristics needed for student collaboration? We answer these questions, and more, as we look at activities and routines that help set the foundation for the student-centered, collaborative classroom environment.

Grades 6-12, General, Classroom Strategies

### **SALON M**

**NICK VACCA**, Manager of School Partnerships

## Creating a Successful Co-Teaching Classroom: Learning to Let Go

Have you been assigned a co-teacher and need guidance navigating the dynamics of shared instruction? Come experience a co-taught mathematics lesson and discuss strategies for differentiating and co-teaching success.

Grades 6-12, Classroom Strategies, Special Populations

### **SALON N**

**CHRISTI SAMPSON**, Manager of School Partnerships

**KATIE RUFF**, Manager of School Partnerships

## Breakout Session B

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*Tuesday, 1:00pm-2:30pm*

## Making Instructional Decisions on a Daily Basis: Lesson Planning with Carnegie Learning Resources

One of the most difficult parts of implementing is making those daily decisions. Join us for a hands-on, interactive session focused on making the most of your lesson planning. Discover a process designed to help you be intentional about planning each and every lesson in a way that won't have you spending entire weekends doing so!

Grades 6-12, First Year CL, Classroom Strategies

### **SALON J**

**REGGIE REVERE**, Manager of School Partnerships

## Differentiated Exit Tickets that Work for All Learners

Have you ever found it challenging to formatively assess students with a variety of needs? Come to this session to deepen your understanding of different student needs, build your capacity in developing differentiated exit tickets and discuss flexible grouping strategies.

Grades 6-12, General, Classroom Strategies, Special Populations

### **SALON N**

**MEAGAN VENSTAD**, Manager of School Partnerships

## Challenging Problems Worth Solving

In this session, you will learn how to take a math problem and increase its rigor so that it challenges your students to think deeply about the math content while remaining accessible to all students. We will discuss how these math problems are different from traditionally used problems as well as how to implement them in your classroom. Come ready to do mathematics that you'll be using with your students when you return to your classroom.

Grades K-12, General, Classroom Strategies

### **CAMELBACK BALLROOM**

**ROBERT KAPLINSKY**, Math Teacher Specialist

## Skip the Tricks and Build Understanding of Fractions

Ask any high school teacher and they will tell you that high school students still do not truly understand fractions. Why are students (and some teachers) so afraid of working with fractions? Let's skip the tricks and build conceptual understanding of fractions and their relative size in order to compare, order and estimate when operating with fractions. In this hands-on session, we will engage in activities around fraction models, benchmark fractions for conceptual comparisons, creating a no trick fraction number line and make connections to operating with fractions.

Grades K-5, General, Mathematics Content

### **SALON I**

**SAMI BRICENO**, Sr. Manager of School Partnerships

## Why Ask? The Importance of Questions in the Classroom

The most important tool teachers have is the questions they ask students on a daily basis. This session features a demonstration lesson with a variety of questioning techniques. Participants will gain an understanding of the importance of questioning in order to deepen students' mathematical knowledge, categorize and analyze types of probing questions, and create and plan questions to use in their classrooms.

Grades K-12, General, Classroom Strategies

### **SALON M**

**CHRISTI SAMPSON**, Manager of School Partnerships

## The Leader's Role in Supporting the Shift

Having a clear vision for 21st century math classrooms in your school or district is one thing, but actually bringing that vision to reality is certainly not an easy task. It involves a mindset shift for many of our teachers, students, and parents and is, most days, what seems like an unrelenting journey. In this session, leaders will uncover the power of their role in this journey as an instructional leader and examine some practical tools designed to help them accelerate toward their goal.

Grades K-12, Leadership

### **SALON H**

**KASEY BRATCHER**, Vice President of Professional Learning

## Breakout Session C

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Tuesday, 3:00pm-4:30pm

### Telling the Math Story: Making Mathematical Connections

The Carnegie Learning resources were written with intention! Come see how the mathematics develops throughout the Middle School and High School Math Solutions through a collaborative activity. You'll leave this session with a better understanding of the mathematics and the Carnegie Learning resources.

Grades 6-12, CL, First Year CL, Mathematics Content

#### **SALON J**

**JILL SWISSA**, Product Manager, Professional Development

**AFREEKA MILLER**, Manager of School Partnerships

### Number Talks: Building Fluency

A Number Talk is a powerful tool that can be used at ANY grade level. Number Talks help students use number sense and structure to build computational fluency and mental math strategies.

Grades K-12, General, Classroom Strategies, Mathematics Content

#### **SALON I**

**CATHRYN ANDERSON**, Math Specialist

**MEREDITH SCHEINER**, Math Specialist

### Planning for Effective Professional Learning Communities

This session will focus on creating a framework for effective Professional Learning Communities (PLC). Teachers need support in collaboration and a framework for building their capacity to lead their own learning. As a leader how should you model and lead PLC time while building capacity for your teachers to support each other? Kris will share some practical strategies for PLCs.

Grades K-12, Leadership

#### **SALON H**

**KRISTINE HOBAUGH**, Regional Director of Professional Development, North US

### Literacy & Mathematics: Embracing the Power of Reading and Writing in Math Class

Interacting with context rich scenarios, students engage in reading & writing at levels not previously experienced in a math class. We will focus on strategies that build students' literacy capacity, support the development of deeper understanding, engage in math practices, and offer optimal formative assessment.

Grades K-12, General,

#### **SALON M**

**SARAH GALASSO**, Sr. Manager of School Partnerships

### The Blended Solution: Connecting MATHia and the Textbook

Are your students having challenges connecting MATHia problems to textbook problems? Are your students having trouble applying what they have learned in the classroom to tasks in MATHia? Come join us to get tips on connecting Learning Individually (MATHia) with Learning Together (textbook).

Grades 6-12, CL, Classroom Strategies

#### **SALON N**

**KRISTIN PARSONS**, Project Manager

**LEMARIO BLAND**, Project Manager

## Advanced Educator ONLY: Q&A with the Textbook Authors

This session is exclusively available to participants attending the Advanced Educator Workshop. Join the authors themselves for a unique opportunity to ask questions and learn more about the “why” behind Carnegie Learning Resources.

Advanced Educator ONLY

### **SALON E**

**SANDY BARTLE FINOCCHI**, Senior Academic Officer

**AMY JONES-LEWIS**, Director, Instructional Design

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## Breakout Session D

*Wednesday, 10:00am-11:30am*

### The Carnegie Learning Lab 101: Student Side of Things

What should a Carnegie Learning lab look like, sound like and feel like? Come join us for an interactive and informative session that will leave you with a clear picture of a successful lab implementation. Explore the Cognitive Tutor/MATHia course content and leave with an understanding of how to navigate the MATHia® software from a student’s perspective, a knowledge of the key features of the MATHia software, and the ability to create an effective Carnegie Learning lab. Please note this session is a BYOD session—make sure you have your laptop with you!

Grades 6-12, First Year CL

### **SALON J**

**JAMI KOUSTIK**, Manager of School Partnerships

### Purposeful Coaching

As an instructional coach, are you being utilized as an agent of change on your campus or in your district? Do you ever feel like you are being pulled in lots of different directions and working with teachers isn't always the top priority? Come to this session as we provide you with the tools you need to create purpose and goals around the work you do every day with teachers and students. We will discuss protocols and usable frameworks to help you maximize your impact as a change agent in your building!

Grades K-12, Leadership

### **SALON H**

**CASSIE MARTIN REYNOLDS**, Regional Director of Professional Development, South US

**JILL SWISSA**, Product Manager, Professional Development

### Sheltering Math Instruction: Supporting ELL Students

For many educators, the challenge of bringing language and math instruction together is a relatively new one. Many math teachers who don't see themselves as language instructors are now responsible for providing effective math instruction to ELLs. This session will focus on the importance of and strategies for:

- Teaching academic vocabulary
- Reading and understanding written math problems
- Building background knowledge
- Increasing student language production in the mathematics classroom

Grades K-12, General, Classroom Strategies, Special Populations

### **SALON N**

**MEREDITH SCHEINER**, Math Specialist

**CATHRYN ANDERSON**, Math Specialist

## What's Trending? Fitting Functions to Data

Finding the equation of best fit is just the beginning. Why do we stop working on a best fit problem when we find an equation? Should we care about the key characteristics of the graph of the best fit equation? Let's explore the value of determining an equation of line of best fit and what it tells us when analyzing and interpreting data in context. Then let's determine if functions, other than linear, provide a better fit for data in certain situations.

Grades 9-12, General, Mathematics Content

### **SALON I**

**SAMI BRICENO**, Sr. Manager of School Partnerships

## Daily Informed Instruction (DII)

Data-driven instruction is a SUPER expression used throughout education. Figuring out what data to use, then when and how to use it, can become cumbersome and overwhelming at times. The purpose of this session is to clarify “the what” and to understand formative assessments as the GATEWAY to a successful practice.

Grades 6-12, General, Data and Assessment

### **SALON M**

**AFREEKA MILLER**, Manager of School Partnerships

## Hook Them In: The Secret to Engagement

Participants will explore multiple ways of implementing lessons with fun and innovative activities that will HOOK students into the lesson while maintaining engagement and increasing student achievement. Participants will leave this hands-on workshop with various activities to engage all students, promote academic discourse, and assist students with developing a conceptual understanding of each lesson.

Grades K-12, General, Classroom Strategies

### **CAMELBACK BALLROOM**

**BERNARD E. FROST**, Former President, South Carolina Leaders of Mathematics Education

## Advanced Educator ONLY:

### Q&A with the MATHia Expert

This session is exclusively available to participants attending the Advanced Educator Workshop. Join us for a unique opportunity to ask questions and learn how to use MATHia more effectively.

Advanced Educator ONLY

### **SALON E**

**COURTNEY LEWIS**, Sr. Manager of School Partnerships

**KATIE RUFF**, Manager of School Partnerships

## Breakout Session E

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*Wednesday, 12:30pm-2:00pm*

## The Carnegie Learning Lab 101: Teacher Side of Things

In this session, explore top Teacher's Toolkit tasks and student reports in order to gain a detailed understanding of how to manage the day-to-day student work within the MATHia software. Please note this session is a BYOD session—make sure you have your laptop with you!

Grades 6-12, First Year CL, Data and Assessment

### **SALON J**

**JAMI KOUSTIK**, Manager of School Partnerships

## Leadership Reports: Using Data Effectively

In this session, participants will have an opportunity to explore their school and district data from an “airplane” view. This session investigation will give administrators and supervisors an opportunity to effectively interpret student data to make informed decisions (district, school, group, individual, etc.) and develop manageable routines for regularly running and monitoring data.

Grades 6-12, Leadership, CL, Data and Assessment

### **SALON H**

**TRACI PHILLIPS-ROACH**, Sr. Manager of School Partnerships

## Modeling WITH Mathematics

Ask anyone what it means to model with mathematics and you will get different responses each time. Utilizing a variety of modeling tasks, we will uncover the myths and truths of Math Practice 4 (model with mathematics) and how to support students as they develop the ability to model with mathematics.

Grades K-12, General, Classroom Strategies, Mathematics Content

### **SALON E**

**SARAH GALASSO**, Sr. Manager of School Partnerships

## Motivating Students Using the Teacher's Toolkit Reports

Now that you know how to set-up your teacher's toolkit and run reports; how do you use this data to motivate your students? Participants will experience ways to use data to inform their instruction.

Grades 6-12, Data and Assessment, Classroom Strategies

### **SALON F**

**SUE HAMILTON**, Manager of School Partnerships

## Edulastic: 21st Century Assessments

Assessment tools that are easy enough for classroom formative assessments, yet sophisticated enough for common interim and benchmark assessments that mirror state tests. Come see how Edulastic will free your time in grading stacks of papers, provide true differentiated data, and allow you to give immediate feedback to your students. Please note this session is a BYOD session – make sure you have your laptop with you!

Grades K-12, Data and Assessment

### **SALON I**

**KRISTIN PARSONS**, Project Manager

**LEMARIO BLAND**, Project Manager

## The Collaborative Classroom: Strategies and Beyond

Set the stage for an outstanding school year by establishing routines and expectations from day one for a collaborative classroom. Come learn and discuss successful strategies designed to promote a productive learning environment. Walk away with a specific action plan to implement in the fall.

Grades 6-12, General, Classroom Strategies

### **SALON M**

**MICHAEL MORICI**, Manager of School Partnerships

**LISA STRITTMATTER**, Manager of School Partnerships

## Making Mathematics Accessible: Strategies for Special Populations

How do we make mathematics accessible to ALL students? We need to acknowledge and address the areas that affect student learning in mathematics. Only then can we utilize a variety of strategies to meet the needs of every student.

Grades K-12, General, Classroom Strategies, Special Populations

### **SALON N**

**AHMAD ABUAKAR**, Manager of School Partnerships

**KRISTINE HOBAUGH**, Regional Director of PD, North US