VIRTUAL MATHEMATICS PROFESSIONAL LEARNING CATALOG
2021 - 2022

Click Here

Georgia Department of Education
Mathematics Teaching and Learning
Click on a grade level to find the virtual professional learning options offered by the Georgia Department of Education.

Click Here for Listing of all Grade Level Mathematics Virtual Specialists 2021-2022

Click Here for GaDOE Mathematics Team Contact Information

Click Here to Join Georgia Mathematics Professional Learning Community

Kindergarten | 1st Grade | 2nd Grade | 3rd Grade

4th Grade | 5th Grade | 6th Grade | 7th Grade


8th Grade | Precalculus

Click Here for GaDOE Mathematics Team Contact Information

Click Here for GaDOE Mathematics Team Contact Information
Kindergarten

Session 1: Building the Count Sequence and Counting Routines
November 17, 2021 (Pre-Recorded)

Session 2: Early Numeracy and Counting
November 30, 2021 (Pre-Recorded)

Session 3: Math Tools: Using Manipulatives to Develop Student Understanding
December 7, 2021 5:00-6:00 PM (Live)

Session 4: Decomposing Numbers and Place Value
December 15, 2021 5:00-6:00 PM (Pre-Recorded)

Session 5: Geometric and Spatial Reasoning
January 12, 2022 (Pre-Recorded)

Session 6: Patterning and Algebraic Thinking
February 16, 2022 5:00-6:00 PM (Live)

Session 7: Concepts of Addition and Subtraction
March 16, 2022 (Pre-Recorded)

Session 8: Math Talk and Writing in Mathematics
April 20, 2022 5:00-6:00 PM (Live)
## 1st Grade

### Session 1: Mathematics Makes Sense in Context! (Intro to SMPs and ETPs)
- **Date:** November 4, 2021
- **Format:** Pre-Recorded
- **Link:** [Link to pre-recorded PL session](#)

### Session 2: Counting and Place Value Part I
- **Date:** November 18, 2021
- **Format:** Pre-Recorded
- **Link:** [Link to pre-recorded PL session](#)

### Session 3: Problem Solving and Numeracy Progression
- **Date:** December 7, 2021
- **Format:** Live
- **Link:** [Link to live session recording](#)

### Session 4: Building Fluency: Role of Play and Multiple Representations
- **Date:** December 14, 2021
- **Format:** Live
- **Link:** [Link to pre-recorded PL session](#)

### Session 5: Measurement Reasoning: Iterate What?
- **Date:** January 20, 2022
- **Format:** Live
- **Link:** [Link to live session recording](#)

### Session 6: Geometric & Spatial Reasoning
- **Date:** February 15, 2022
- **Format:** Live
- **Link:** [Link to live session registration link](#)

### Session 7: Place Value Part II: Navigating 100 chart and more
- **Date:** March 15, 2022
- **Format:** Live
- **Link:** [Link to live session registration link](#)

### Session 8: Statistical Problem-Solving Process and Mathematical Modeling
- **Date:** April 15, 2022
- **Format:** Pre-Recorded
- **Link:** [Link to pre-recorded PL session](#)
2nd Grade

Session 1: Math Talk
November 5, 2021 (Pre-Recorded)
Link to pre-record PL session
Watch Now

Session 2: Conceptual Understanding through Numberless Word Problems
November 16, 2021 3:30-4:30 PM (Live)
Link to live session recording
Watch Now

Session 3: Geometry All Around: Geometric & Spatial Reasoning
November 30, 2021 3:30-4:30 PM (Live)
Link to live session recording
Watch Now

Session 4: Fluency from Understanding: Drill-less Math Facts
December 7, 2021 January 11, 2022
3:30-4:30 PM (Pre-Recorded) 3:30-4:30 PM (Pre-Recorded)
Link to pre-record PL session
Link to live session recording
Watch Now

Session 5: 3-Act Tasks
January 11, 2022 February 8, 2022
3:30-4:30 PM (Pre-Recorded) 3:30-4:30 PM (Pre-Recorded)
Link to live session registration link
Link to pre-record PL session

Session 6: Time and Money: Measurement & Data Reasoning
March 15, 2022 (Live)
Link to live session registration link

Session 7: Represent It: Measurement & Data Reasoning (length & graphs)
April 12, 2022 (Pre-Recorded)
Link to live session registration link

Session 8: Multiplicative Thinking

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3rd Grade

Session 1: Problem-Solving with Multiplication and Division
November 4, 2021 (Pre-Recorded)
Link to pre-record PL session

Session 2: Multiply and Divide within 100
November 18, 2021 6:00-7:00 PM (Live)
Link to live session recording

Session 3: Patterns in Arithmetic and Problem-Solving
December 2, 2021 (Pre-Recorded)
Link to pre-record PL session

Session 4: Reasoning with Shapes and their Attributes
December 16, 2021 6:00-7:00 PM (Live)
Link to live session recording

Session 5: Representing and Comparing Fractions
January 20, 2022 6:00-7:00 PM (Live)
Link to live session registration

Session 6: Measurement and Problem-Solving
February 17, 2022 6:00-7:00 PM (Live)
Link to live session registration

Session 7: Solving Problems with Larger Numbers using Place Value and Properties
March 17, 2022 (Pre-Recorded)
Link to pre-record PL session

Session 8: Data and Statistical Reasoning
April 14, 2022 (Pre-Recorded)
Link to pre-record PL session
# 4th Grade

<table>
<thead>
<tr>
<th>Session 1:</th>
<th>Session 2:</th>
<th>Session 3:</th>
<th>Session 4:</th>
<th>Session 5:</th>
<th>Session 6:</th>
<th>Session 7:</th>
<th>Session 8:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Let's give them something to talk about: Math Routines</td>
<td>Math in the Real World</td>
<td>Keywords aren't the Key to Understanding</td>
<td>No matter how you slice it...Making sense of fractions</td>
<td>Another Piece of the Puzzle: Understanding Decimals</td>
<td>What Do the Data Show?</td>
<td>Getting into Shape!</td>
<td>Going the Distance: (time, length, area, and perimeter)</td>
</tr>
<tr>
<td>November 17, 2021 (Pre-Recorded)</td>
<td>November 30, 2021</td>
<td>December 2, 2021 (Pre-recorded)</td>
<td>December 15, 2021 6:00-7:00 PM (Live)</td>
<td>January 20, 2022 6:00-7:00 PM (Pre-recorded)</td>
<td>February 10, 2022 6:00-7:00 PM (Pre-recorded)</td>
<td>March 10, 2022 6:00-7:00 PM (Live)</td>
<td>March 31, 2022 (Pre-recorded)</td>
</tr>
</tbody>
</table>

[Link to pre-record PL session](#)  [Watch Now](#)
[Link to live session recording](#)  [Watch Now](#)
[Link to pre-record PL session](#)  [Watch Now](#)
[Link to live session recording](#)  [Watch Now](#)
[Link to pre-record PL session](#)  [Watch Now](#)
[Link to live session registration link](#)  [LIVE](#)
[Link to live session registration link](#)  [LIVE](#)  [Pre REC Session](#)
5th Grade

Session 1: A Progression of Learning: Adding and Subtracting Mixed Numbers
TBD (Pre-Recorded)
Link to pre-record PL session:

Session 2: A Progression of Learning: Multiplying Fractions
TBD (Pre-Recorded)
Link to pre-record PL session:

Session 3: A Progression of Learning: Dividing Fractions
TBD (Live)
Live session registration link:

Session 4: A Progression of Learning: Building the Concept of Volume
TBD (Pre-Recorded)
Live session registration link:

Session 5: A Progression of Learning: Statistical Reasoning
TBD (Pre-Recorded)
Link to pre-record PL session:

Session 6: A Progression of Learning: Geometric Reasoning Part 1
TBD (Pre-Recorded)
Link to pre-record PL session:

Session 7: A Progression of Learning: Geometric Reasoning Part 2
TBD (Live)
Live session registration link:

Session 8: A Progression of Learning: Patterning & Algebraic Reasoning
TBD (Live)
Live session registration link:
6th Grade

Session 1: Which is the Better Buy?
November 16, 2021 (Pre-Recorded)
Link to pre-record PL session:

Session 2: I Don’t Have a Twin but I Do Have an Opposite!
December 7, 2021 (Pre-Recorded)
Link to pre-record PL session:

Session 3: Do Statistics Make You M.A.D.?
December 8, 2021 3:30-4:30 pm (Live)
Link to recorded PL session:

Session 4: Desmos, Where Have You Been My Entire Middle School Life?
December 15, 2021 3:30-4:30 pm (Live)
Live session recording:

Session 5: It’s OK for You to Talk Now! Let Students EXPRESS Themselves!
January 19, 2022 3:30-4:30 pm (Live)
Live session registration link:

Session 6: Strategies for Solving One-Step Equations and Inequalities
February 8, 2022 (Pre-Recorded)
Link to pre-record PL session:

Session 7: How Can Statistics be Used to Connect Concepts in 6th Grade?
March 23, 2022 3:30-4:30 pm (Live)
Live session registration link:

Session 8: Let’s Get Into Shape!
April 13, 2022 (Pre-Recorded)
Link to pre-record PL session:
7th Grade

Session 1: Building Confidence with Positive & Negative Number Operations (Part 1)
November 10, 2021 (Pre-Recorded)
Link to pre-recorded PL session:
Watch Now

Session 2: Building Confidence with Positive & Negative Number Operations (Part 2)
November 18, 2021 5:00-6:00 pm (Live)
Link to recorded PL session:
Watch Now

Session 3: Building Confidence with Proportions (Part 1)
December 2, 2021 (Pre-Recorded)
Link to pre-recorded PL session:
Watch Now

Session 4: Building Confidence with Proportions (Part 2)
December 16, 2021 5:00-6:00 pm (Live)
Link to pre-recorded PL session:
Watch Now

Session 5: Building Confidence with Equations & Inequalities (Part 1)
January 20, 2022 (Pre-Recorded)
Live session registration link:

Session 6: Building Confidence with Equations & Inequalities (Part 2)
February 24, 2022 5:00-6:00 pm (Live)
Link to pre-recorded PL session:

Session 7: Building Confidence with Geometry & Probability (Part 1)
March 24, 2022 (Pre-Recorded)
Live session registration link:

Session 8: Building Confidence with Geometry & Probability (Part 2)
April 21, 2022 5:00-6:00 pm (Live)
Live session registration link:
Geometry: Concepts & Connections

Session 1:
Polynomial Expressions
November 11, 2021
5:00-6:00pm
(Live)

Session 2:
Geometric Foundations, Constructions and Proof
November 18, 2021
5:00-6:00pm
(Live)

Session 3:
Congruence
November 29, 2021
5:00-6:00pm
(Pre-Recorded)

Session 4:
Similarity
December 7, 2021
5:00-6:00pm
(Live)

Session 5:
Right Triangle Trigonometry
January 6, 2022
5:00-6:00pm
(Live)

Session 6:
Circles
January 27, 2022
5:00-6:00pm
(Live)

Session 7:
Equations and Measurement
February 24, 2022
5:00-6:00pm
(Live)

Session 8:
Probability and Statistics
March 10, 2022
5:00-6:00pm
(Live)
**Advanced Algebra: Concepts & Connections**

**Session 1:**
Moving Away from Math without Context: Dissecting the Mathematical Modeling Framework
- November 11, 2021 (Prerecorded)
- Link to prerecorded PL Session: Watch Now

**Session 2:**
Using the Framework for Statistical Reasoning to Make Inferences and Conclusions about Data
- November 29, 2021 (Prerecorded)
- Link to prerecorded PL Session: Watch Now

**Session 3:**
Real or Imaginary: Exploring Quadratic Functions in Context (AA.FGR.5)
- December 7, 2021 (Live)
- Link to live session recording: Watch Now

**Session 4:**
Exploring Patterns and Structures for Radical Functions (AA.PAR.4)
- December 16, 2021 5:30-6:30pm (Live)
- Link to live session registration link: PREC Session

**Session 5:**
Using Matrices to Represent Data and Solve Linear Equations (AA.PAR.6)
- Jan. 20, 2022 (Pre-Recorded)
- Link to prerecorded PL session: Live

**Session 6:**
Rational Behavior: Exploring Rational Functions (AA.FGR.8)
- February 24, 2022 5:30-6:30pm (Live)
- Link to live session registration link: Live

**Session 7:**
Exploring Patterns and Structures for Exponential and Logarithmic Functions in Context (AA.FGR.3)
- March 24, 2022 5:30-6:30pm (Live)
- Link to live session registration link: Live

**Session 8:**
Getting "Trig-y" with the Unit Circle (AA.GSR.7)
- April 14, 2022 (Prerecorded)
- Link to prerecorded PL session: Live
Precalculus

Session 1: Modeling with Rational and Piecewise Function
January 11, 2022 (Prerecorded)
Link to prerecorded PL session:
Pre REC Session

Session 2: Establishing the Unit Circle as a Course Foundation
January 18, 2022 (Prerecorded)
Link to prerecorded PL session:
Pre REC Session

Session 3: Modeling with Wave Functions
January 20, 2022 (Prerecorded)
Link to prerecorded PL session:
Pre REC Session

Session 4: Developing Trigonometric Identity Relationships
January 24, 2022 (Prerecorded)
Link to prerecorded PL session:
Pre REC Session

Session 5: Developing Polar Coordinates and Equations
January 25, 2022
5:00-6:00 pm (Live)
Live session registration link:
LIVE

Session 6: Modeling with Vectors and Parametric Equations
February 22, 2022
5:00-6:00 pm (Live)
Live session registration link:
LIVE

Session 7: Investigating Sequences and Series
March 22, 2022
5:00-6:00 pm (Live)
Live session registration link:
LIVE

Session 8: Examining Threads in the Course
April 12, 2022
5:00-6:00 pm (Live)
Live session registration link:
LIVE
Mathematical Modeling Pathway

Session 1: The Significance of Mathematical Modeling
TBD (Prerecorded)
Link to prerecorded PL session:

Session 2: Creating Relevant Tasks for Student Engagement
TBD (Prerecorded)
Link to prerecorded PL session:

Session 3: Purposeful Use of Technology.
December 2, 2021 5:00-6:00 pm (Live)
Live session registration link:

Session 4: Locating Sources for Mathematical Applications to Model.
December 14, 2021 5:00-6:00 pm (Live)
Live session registration link:

Session 5: One Good Task: The Mathematics of Finance
January 19, 2022 (Prerecorded)
Link to prerecorded PL session:

February 17, 2022 5:00-6:00 pm (Live)
Live session registration link:

March 24, 2022 (Prerecorded)
Link to prerecorded PL session:

Session 8: Success in the Mathematical Modeling Pathway - Now What?
April 22, 2022 5:00-6:00 pm (Live)
Live session registration link:
Advanced Calculus

Session 1: Using VANG for Analysis in Calculus and AP Calculus
November 16, 2021 (Prerecorded)
Link to prerecorded PL session: Watch Now

Session 2: Making Connections through Modeling in Calculus
November 30, 2021 (Prerecorded)
Link to prerecorded PL session: Watch Now

Session 3: Formative Assessment in AP Calculus
December 7, 2021 5:00-6:00 pm (Live)
Link to Live session recording: Watch Now

Session 4: Understanding the Limit as the Basis of Calculus
December 14, 2021 5:00-6:00 pm (Live)
Live session registration link: Live

Session 5: Getting ready for the Exam-AP Calculus AB and BC
January 25, 2022 (Prerecorded)
Link to prerecorded PL session: Live

Session 6: Beyond AP Calculus BC: Differential Equations
February 15, 2022 5:00-6:00 pm (Live)
Live session registration link: Live

Session 7: Beyond AP Calculus BC: Multivariable Calculus
March 22, 2022 (Prerecorded)
Link to prerecorded PL session: Live

Session 8: Beyond AP Calculus BC: Engineering Calculus
April 12, 2022 5:00-6:00 pm (Live)
Live session registration link: Live

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Advanced Statistics

Session 1: Setting the Stage for AP Statistics
November 17, 2021 (Prerecorded)
Link to prerecorded PL session: Watch Now

Session 2: Statistical Reasoning Task Modeling – Chunking It!
November 29, 2021 (Prerecorded)
Link to prerecorded PL session: Watch Now

Session 3: Calibrating Expectations for FRQs and Utilizing Them for Formative Assessment
December 8, 2021 5:00-6:00pm (Live)
Link to live session: Watch Now

Session 4: Correlating Tasks with Statistical Reasoning Standards
December 14, 2021 5:00-6:00pm (Live)
Link to live session: Watch Now

Session 5: AP Statistics Preparing for the Exam
February 3, 2022 (Prerecorded)
Link to prerecorded PL session:

Session 6: Statistical Reasoning Task Modeling
February 16, 2022 5:00-6:00pm (Live)
Link to live session registration link:

Session 7: Linear Algebra with Computer Science Applications Task 1
March 23, 2022 (Prerecorded)
Link to prerecorded PL session:

Session 8: Linear Algebra with Computer Science Applications Task 2
April 20, 2022 5:00-6:00pm (Live)
Link to live session registration link:
Mathematics Virtual Specialists 2021-2022

Algebra: Concepts & Connections
Virtual Specialist
Charlène Matthew

Geometry: Concepts & Connections
Virtual Specialist
Jernita Randolph

Advanced Algebra: Concepts & Connections
Virtual Specialist
Sheena Williams

Precalculus
Virtual Specialist
Julie Harrison

Mathematical Modeling Pathways
Virtual Specialist
Niyokia Phillips

Advanced Calculus
Virtual Specialist
Tamaiko Chappell

Advanced Statistics
Virtual Specialist
Kaycie Maddox