



ST Math Professional Learning Catalog

Click the session name for more detailed information.

ID	Session Name	Year 1	Year 2	Year 3+	Prerequisite
PL100	Foundations of ST Math <i>Introduction to ST Math</i>	✓			None
PL102	Monitoring & Supporting Students in ST Math <i>Use data to monitor and support your students.</i>	✓			PL100
PL103	Enhancing Instructional Practices with ST Math <i>Includes 5 different options to integrate ST Math with current instructional practices.</i>		✓	✓	PL100 & PL102
PL104	Maximizing your ST Math Implementation <i>Deepen ST Math practices for returning schools</i>		✓	✓	PL100 & PL102
PL107	Using Tools with ST Math <i>Use math tools to enhance the ST Math experience.</i>		✓	✓	PL100 & PL102
PL108	Strategies for Developing Language with ST Math <i>Practical strategies to support language with ST Math</i>		✓	✓	PL100 & PL102
PL109	Puzzle Talk Foundations <i>Engage students in rich mathematical discourse and problem solving.</i>		✓	✓	PL100 & PL102
PL101	Customized PLC Support <i>Flexible options to support and strengthen your implementation</i>	✓	✓	✓	PL100
PL111	ST Math Classroom Modeling <i>Observe an ST Math facilitator model lessons and strategies.</i>	✓	✓	✓	PL100
PL400	Family Workshop <i>Engage parents, guardians, and care-givers in ST Math.</i>	✓	✓	✓	None
NA	Workshop Add-on Topics <i>Customize and extend your workshop with additional topics.</i>	✓	✓	✓	Varies

Continue to the next page for Administrator, Special Program, and Curriculum Training options



Administrators, Coaches, and Math Leaders

Click the session name for more detailed information.

ID	Session Name	Year 1	Year 2	Year 3+	Prerequisite
PL500	Introduction to ST Math for Administrators <i>Ensure a strong ST Math implementation.</i>	✓	✓	✓	None
PL501	Data Driven Instruction & Rhythms with ST Math <i>Use data and weekly rhythms to ensure ST Math has the highest impact.</i>	✓	✓	✓	PL100 or PL500
PL502	Enhancing Core Instruction with ST Math <i>Use ST Math as a powerful instructional tool to support core instruction.</i>	✓	✓	✓	PL100 or PL500

ST Math Special Program and Curriculum Training

These programs require an additional purchase beyond ST Math digital software.

ID	Session Name	Year 1	Year 2	Year 3+	Prerequisite
PL300	Early Learning <i>Introduce ST Math to the teachers of your youngest learners.</i>	✓			None
PL301	Enhancing the Early Learning Curriculum <i>Dive deeper into ST Math: Early Learning.</i>		✓	✓	PL300
PL310	ST Math Summer Immersion <i>Learn to leverage the ST Math Immersion instructional framework.</i>	✓	✓	✓	Experienced ST Math users
PL311	ST Math Immersion Support <i>Customized modeling and program support</i>				
PL320	ST Math Camps <i>Prepare to successfully teach and facilitate ST Math Camps.</i>	✓	✓	✓	None
PL200	ST Math Champion Empowerment Package <i>Three year package designed to equip and empower ST Math Champions</i>	✓	✓	✓	None



Foundations of ST Math

PL100

Introduction to ST Math

Foundations of ST Math is an in-depth learning opportunity for those new to ST Math. Participants will immerse themselves in a variety of hands-on experiences that will teach them how ST Math works. Educators will come away with a plan to effectively implement the program with their students.

Learning Objectives: Participants will be able to:

- Play ST Math games to discover how learning occurs.
- Support students in ST Math.
- Create a plan to introduce ST Math to students.
- Set goals and monitor students in ST Math.

Audience Year 1 ST Math educators

Prerequisite ST Math educator account must be created prior to training.

Duration Virtual: 90-minute session
On-site: 2-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

Monitoring and Supporting Students in ST Math

PL102

Use data to monitor and support your students.

Educators will analyze and respond to their ST Math data and equip themselves with strategies to support students in ST Math. This workshop is divided into two parts: using program features to support students when they struggle in ST Math and monitoring class and individual student data to create an action plan in response to discoveries.

Learning Objectives: Participants will be able to:

- Identify and support struggling students.
- Analyze data and create an action plan.
- Use assignments to align & differentiate.
- Explore resources for celebration & accountability.

Audience Year 1 ST Math educators

Prerequisite PL100; intended for 6-9 weeks post-startup

Duration Virtual: 90-minute session
On-site: 2-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session



Enhancing Instructional Practices with ST Math

PL103

Integrate ST Math into the instructional strategies you already use in your classroom.

In this workshop, school/district administrators identify the mathematical instructional practice or focus area, and participants will learn how to integrate ST Math into the practices they already use.

Session Options and Learning Objectives:

- A. Using ST Math in Stations** - Develop a plan to incorporate ST Math into new or existing station models and explore ideas to promote accountability, agency, and learning during stations.
- B. Number Talks** - Use ST Math puzzles as the problem in Number Talk routines.
**Teachers should already have experience using Number Talks.*
- C. Writing in Math** - Integrate exit tickets & math journals to extend and make connections to ST Math.
- D. Rich Tasks with ST Math** - Use ST Math resources and manipulatives to extend and deepen mathematical thinking and problem solving.
- E. Data Tracking & Goal Setting** - Empower students to take ownership of their learning in ST Math and set individual and/or classroom goals.

Audience All ST Math educators

Prerequisite PL100 and 102

Duration Virtual: 60- or 90-minute session
On-site: 1.5-2-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session



Maximizing your ST Math Implementation

PL104

Deepen ST Math practices for returning schools.

Learning Objectives: Participants will be able to:

- Explore new features and resources
- Develop rhythms to support success
- A. Extend learning with math discourse**
 - Teacher guided Problem Solving
 - Engagement strategies
- B. Create a positive classroom culture with ST Math**
 - Student Accountability
 - Social Emotional Learning

Audience ST Math Educators with at least one year of experience

Prerequisite PL100 and 102

Duration Virtual: 90-minute session (all objectives)
60-minute session (Choose A or B)
On-site: 2-hour session (all objectives)
90-minute session (Choose A or B)

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

Using Tools with ST Math

PL107

Use math tools effectively to enhance the ST Math experience.

Topic Progression: Each topic builds upon the previous.

1. Use embodied cognition and math tools to recreate feedback.
2. Use math tools you already have to deepen conceptual understanding during whole group facilitation.
3. Incorporate math tools into the ST Math routine to build capacity and independence.

Audience ST Math Educators with at least one year of experience

Prerequisite PL100 and 102

Duration Virtual: 30-minute (Topic 1), 60-minute (Topics 1 & 2), or 90-minutes (Topics 1, 2, & 3)
On-site: 60-minute (Topic 1), 90-minute (Topics 1 & 2), or 120-minutes (Topics 1, 2, & 3)

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session



Strategies for Developing Language with ST Math

PL108

Practical strategies to support the use of language with ST Math

ST Math is designed around our research-based, patented approach using visual models to build a conceptual understanding of math concepts; however, that doesn't mean language isn't important. In this session educators will learn strategies to support the use of language with ST Math.

Learning Objectives: Participants will be able to:

- Understand how ST Math provides access to math content, critical thinking, and communication.
- Experience strategies to increase language proficiency in the classroom.
- Identify how playing ST Math supports receptive and expressive language development.
- Apply and expand ideas and strategies to immediately apply them in the classroom.

Audience Experienced ST Math user

Prerequisite PL100 and PL102

Duration Virtual: 90 minutes
On-site: 2-hours

Participants Virtual 50 participant maximum
On-site 25 participant maximum/session

Puzzle Talk Foundations

PL109

Learn to engage students in rich mathematical discourse and creative problem solving.

During this in-depth workshop, educators will be equipped to use ST Math as a powerful tool for whole and small group instruction. We highly recommend pairing this training with a day of [classroom modeling](#) to provide the most impactful learning opportunity to encourage mathematical discourse in the classroom.

Learning Objectives: Participants will:

- Identify the purpose for a Puzzle Talk.
- Experience a Puzzle Talk.
- Integrate Puzzle Talks to their curriculum.
- Develop a plan to deliver a Puzzle Talk with their students.

Audience Experienced ST Math user

Prerequisite PL100 or PL104, PL102

Duration On-site: 2-hour session
Virtual: 90 minutes

Participants On-site: 25 participant maximum/session



Family Workshop

PL400

Engage parents, guardians, and care-givers in ST Math.

Develop a strong family connection to support student success in ST Math. In this workshop, families have the chance to learn about ST Math’s unique approach to learning math and why it is important in developing a deep conceptual understanding of mathematics.

Learning Objectives: Families will:

- Discover how learning occurs in ST Math.
- Support students working in the program from home.
- Uncover how to view student progress.
- Locate resources for using ST Math at home.

Audience Families of ST Math students

Prerequisite None

Duration On-site 1-hour
 Virtual Flexible - see topics →

- two 30-minute sessions
- one 60-minute session

Session Topics (15 minutes each)

- What is ST Math?
- How is my student doing in ST Math?
- How can I support my student?
- Celebrating Success

Participants Virtual: 50 participant maximum
 On-site: 25 participant maximum/session

Workshop Add-on Topics

Each topic can be delivered as an add-on to a standard workshop or alone as a Thought Burst, or mini-training.

Topic	Description	Duration
5 Minute Data Dive	Explore a weekly rhythm to analyze ST Math data to inform instruction.	15-30 mins
Strategies for Supporting Stuck Students	Quick tips and strategies to support and respond to students who are struggling in ST Math.	30 mins
Early Finishers	Identify and explore ST Math resources to engage students who finish their ST Math Journey early in the year.	30-40 mins
ST Math Activity Pages	Use ST Math Activity Pages to extend the learning from the ST Math games in a fun and engaging way.	15-30 mins
Integrating ST Math and Eureka Math Texas *Texas only	Blend routines and resources developed by ST Math with components of the Eureka Math TEKS curriculum structure.	30-60 mins



Workshops for Admins, Coaches, & Math Leaders

Introduction to ST Math for Administrators

PL500

Ensure a strong ST Math implementation.

In this workshop administrators are introduced to ST Math and its instructional power. They will receive resources to set expectations, monitor implementation, and celebrate success.

Learning Objectives: Participants will...

- Plan for success by setting usage goals and expectations.
- Learn to monitor implementation by analyzing and evaluating ST Math data.
- Choose resources to celebrate success and build a Jiji culture.
- Identify best practices for using ST Math in the classroom.

Audience Administrators and leaders new to ST Math

Prerequisite None

Duration 1 hour

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

Data Driven Instruction & Rhythms with ST Math

PL501

Use data and weekly rhythms to ensure ST Math has the highest impact.

Learning Objectives: Participants will be able to:

- Use data to set, plan for, and reach goals.
- Effectively use the Data Driven Action Plan and plan a regular rhythm to use it with educators.
- Explore ST Math rhythms and routines that support and encourage implementation goals.

Audience Admins, coaches, and math leaders with ST Math experience

Prerequisite PL500 or PL100

Duration Virtual - 60 minutes
On-site: 60-90 minute session

Participants Virtual 50 participant maximum
On-site 25 participant maximum/session



Enhancing Core Instruction with ST Math

PL502

Use ST Math as a powerful instructional tool to support core instruction.

ST Math is more than just a math software program, it is a powerful instructional tool that can support and enhance all areas of your core math curriculum. In this interactive workshop, administrators, coaches, and math leaders will see and experience the way ST Math can be used to support fluency, direct instruction, conceptual development, and math discourse in the classroom.

Learning Objectives: Participants will be able to:

- Explore and experience the flexibility of ST Math within your core math program.
- Understand how ST Math can support and enhance all areas of math instruction.
- Experience an ST Math Puzzle Talk lesson.
- Review materials and resources available to support and enhance math instruction.

Audience Admins, coaches, and math leaders with ST Math experience

Prerequisite PL500 or PL100

Duration Virtual - 60 minutes
On-site: 60-90 minute session

Participants Virtual 50 participant maximum
On-site 25 participant maximum/session



Customized ST Math Support

ST Math PLC Support

PL101

Targeted ST Math implementation support - great for PLCs, math teams, and instructional coaches. The consulting sessions are customized to address areas of need identified by participants or administration.

Example Topics:

- Interpreting ST Math data
- Supporting students
- Increasing usage
- ST Math as instructional tool
- ST Math resources in the classroom
- Differentiating and using assignments

Audience Any

Prerequisite PL100

Duration Virtual* or on-site: Timing is flexible, ideally 45-60 minutes. Up to six sessions in one day.
*Additional charges may apply.

Additional Details Two planning options:
1. Participants complete a brief survey prior to the sessions to identify areas of interest and greatest need. Sessions are customized to meet the needs of each group [Preview Survey](#)
2. Administrators can choose the topics based upon implementation goals.

Classroom Modeling

PL111

Participants will observe Professional Learning Specialists modeling ST Math best practices in the classroom with students and reflect upon how they can incorporate strategies into their practice.

Modeling Options:

- **ST Math Launch** - ST Math Facilitator will model the Guided Introduction as a whole group to foster excitement and introduce strategies for approaching a puzzle using the Problem Solving Process.
- **Student Facilitation & Support** - Students will play ST Math while the ST Math Facilitator engages students in math discourse and models support strategies. Educators will observe and participate in a debrief.
- **Puzzle Talks** - ST Math Facilitator will model an ST Math Puzzle Talk utilizing the Problem Solving Process and engaging students in mathematical discourse. Educators will observe and participate in a debrief.

Audience Any

Prerequisite PL100

Duration On-site only
Varies: 20-40 minutes per classroom, time to either introduce or debrief Puzzle Talks

Additional Details Participants will be provided with recording sheets to reflect upon their observations. A time to introduce or debrief Puzzle Talks is essential for impact.



ST Math Programs & Curriculum Training

Early Learning

PL300

Introduce ST Math to the teachers of your youngest learners.

Educators new to ST Math for Early Learning have the opportunity to engage in an interactive learning experience to learn to integrate the Early Learning Program. Participants will learn how to effectively use resources to support students' emergent schemas and build an early love for math.

Learning Objectives: Participants will:

- Discover how early learners develop math sense.
- Identify and select the early learning curriculum materials to meet needs.
- Discover how to implement the ST Math Early Learning curriculum in the classroom.
- Integrate math language across the curriculum.

Audience Early Learning Teachers new to ST Math (PreK, Transitional Kindergarten)

Prerequisite Purchase of Early Learning Curriculum

Duration Virtual: Two 90-minute sessions (Ideally 1-2 weeks apart)
On-site: 4-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

Enhancing the Early Learning Curriculum*

PL301

* Schedule on or after October 16, 2023

Participants will dive deeper into the ST Math: Early Learning Curriculum resources to enhance mathematical experiences for students.

Learning Objectives: Participants will be able to:

- Explore and practice Early Learning mathematics.
- Experience facilitation strategies for collaboration.
- Integrate strategy discussions.
- Investigate student work and data.

Audience Teachers using the ST Math Early Learning Curriculum PK or TK

Prerequisite PL300

Duration Virtual: 90-minutes
On-site: 2-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session



ST Math Immersion

PL310

Learn to leverage the ST Math Immersion instructional framework.

Participants will learn how to focus, uncover, and extend student thinking through the ST Math Immersion blended learning framework. During this hands-on workshop, participants will experience the lessons and the pedagogy behind them, explore resources, and plan the first week of instruction.

Learning Objectives: Participants will...

- Experience the lesson framework.
- Discover the instructional strategies that are used to build schema and promote student thinking.
- Navigate the exclusive Immersion site and explore the resources.
- Develop a plan for implementation and activities for the first week.

Audience Educators at sites that have purchased the ST Math Immersion program.

Prerequisite Experienced ST Math users

Duration Virtual: Two 90-minute sessions
On-site: One 4-hour session

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

ST Math Immersion Support

PL311

An ST Math consultant will visit your site to provide tailored modeling and support. Ideally this support would occur during the second week of implementation, after teachers have started using ST Math Immersion.

Support can also be provided during virtual office hours.

Support Options:

- Model Puzzle Talk and/or small group lesson
- Classroom walkthroughs with administrator
- Instructional Station consultation
- Model student facilitation
- Teacher support
- Consulting on Design Challenge

Audience ST Math Immersion teachers and administrators.

Prerequisite PL310 - ST Math Immersion Training

Duration Flexible



ST Math Camps

These hands-on, practical workshops will prepare participants to successfully implement the ST Math Camp curriculum. We focus on making sure all participants are ready to teach the first week of ST Math Camp and understand the structure and components of the curriculum so they can confidently facilitate student learning throughout the program.

Learning Objectives: Participants will...

- Engage in the daily structure and instructional strategies.
- Experience each of the ST Math Camp program components.
- Create a plan to implement the first module of ST Math Camp.

Audience Educators at sites that have purchased the ST Math Camp program and purchased an add-on live professional learning (virtual or on-site).

Prerequisite Journey & Adventure: Experienced ST Math users - if new to ST Math, please add 30-60 minutes for introduction to the program.
Game Design: None

Duration Virtual: 90-minute sessions
On-site: 2-hour session
Add 30-60 minutes for sites or educators new to ST Math

Participants Virtual: 50 participant maximum
On-site: 25 participant maximum/session

ST Math Camp: Journey

PL321

During this workshop, participants will experience an ST Math Puzzle Talk and Activity and prepare to facilitate them with their class in their first module.

ST Math Camp: Adventure

PL322

During this workshop, participants will experience the Table Game they will introduce during the first module as well as prepare to teach the Small Group Problem Solving lesson.

ST Math Camp: Game Design

PL323

During this workshop, participants will experience the design process and walk through the modules of game design that their students will experience.



ST Math Champion Empowerment Package

This 3-year package is designed to equip and empower Champions to elevate the impact of ST Math on student learning. This package includes one on-site training event plus up to five virtual support sessions each year.

Champion Empowerment - Phase 1 (Implementation)

PL201

Equip Champions to support the implementation of ST Math throughout the school year.

Participants will build and deepen their understanding of ST Math to create a plan to support their colleagues and team throughout the school year with ST Math.

Learning Objectives: Participants will be able to:

- Explain their role as a champion and how they will support the implementation of ST Math.
- Describe the intentional design, goals, and features of ST Math.
- Create an implementation plan to ensure the success of ST Math.
- Monitor, communicate, and celebrate ST Math usage throughout the school year.

Audience ST Math Champions such as math leads, instructional coaches, or teachers leaders who will be responsible for supporting ST Math across their school or district.

Prerequisite [See Champion Empowerment Program Flyer](#)

Sessions 3-hour onsite session + up to 5 virtual Champion Hours throughout the school year

Champion Hour Virtual Support Sessions

PL200

Customizable, just-in-time sessions designed for collaboration and support designated Champions. Up to five Champion Hours per year are included in the ST Math Champions Empowerment Package.

Example Topics:

- Timely Data Monitoring
- Celebrations
- Jiji Culture
- Supporting Students
- ST Math Curriculum
- End of Year Reflection

Audience Site or district ST Math Champions

Duration 30 minutes of content followed by Q&A