

# Catapult Learning

in partnership with the



MISSISSIPPI  
DEPARTMENT OF  
EDUCATION

## Virtual Mathematics Professional Development Sessions

### Summer 2024

These math-focused sessions, facilitated by Catapult Learning Math Coaches from our Mississippi Team, are being offered as LIVE 90-minute virtual sessions, available at varied times throughout July to allow for flexibility. The sessions are aligned to the instructional standards and expectations for mathematics and are suitable for teachers, support staff, and leaders of grades K-12.

To register, click [Here!](#)

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# Schedule – July 2024

Date	Time	Session
<b>Tuesday, July 9, 2024</b>	9:30 am - 11:00 am	<b>Developing Lifelong Mathematicians: The Mathematical Practices</b> Elementary
	1:00 pm - 2:30 pm	<b>Developing Lifelong Mathematicians: The Mathematical Practices</b> Secondary
<b>Wednesday, July 10, 2024</b>	9:30 am - 11:00 am	<b>Developing Math Vocabulary</b> Elementary
	1:00 pm - 2:30 pm	<b>Developing Math Vocabulary</b> Secondary
<b>Thursday, July 11, 2024</b>	9:30 am - 11:00 am	<b>Strengthening Math Instruction</b> Elementary
	1:00 pm - 2:30 pm	<b>Strengthening Math Instruction</b> Secondary
<b>Tuesday, July 16, 2024</b>	9:30 am - 11:00 am	<b>Guiding the Process of Problem Solving</b> Secondary
	1:00 pm - 2:30 pm	<b>Guiding the Process of Problem Solving</b> Elementary
<b>Wednesday, July 17, 2024</b>	9:30 am - 11:00 am	<b>Developing Lifelong Mathematicians: The Mathematical Practices</b> Elementary
	1:00 pm - 2:30 pm	<b>Developing Lifelong Mathematicians: The Mathematical Practices</b> Secondary
<b>Thursday, July 18, 2024</b>	9:30 am - 11:00 am	<b>Strengthening Math Instruction</b> Secondary
	1:00 pm - 2:30 pm	<b>Strengthening Math Instruction</b> Elementary
<b>Tuesday, July 23, 2024</b>	9:30 am - 11:00 am	<b>Developing Math Vocabulary</b> Elementary
	1:00 pm - 2:30 pm	<b>Developing Math Vocabulary</b> Secondary
<b>Wednesday, July 24, 2024</b>	9:30 am - 11:00 am	<b>Guiding the Process of Problem Solving</b> Elementary
	1:00 pm - 2:30 pm	<b>Guiding the Process of Problem Solving</b> Secondary
<b>Thursday, July 25, 2024</b>	9:30 am - 11:00 am	<b>Developing Math Vocabulary</b> Secondary
	1:00 pm - 2:30 pm	<b>Developing Math Vocabulary</b> Elementary

# Session Descriptions

## Developing Lifelong Mathematicians: The Mathematical Practices

In this session, participants will distinguish the eight Student Mathematical Practices that describe the skills of mathematicians at all age levels, explore how to embed these skills in problem solving, identify techniques for questioning and teaching which develop these skills, and create differentiated tasks so students can grow.

## Guiding the Process of Problem Solving

This introductory course seeks answers to two key questions: What do good problem solvers think about? How can we teach students to be better problem solvers? In this course, participants will learn to break down the process of problem solving into a protocol of questions and help students gradually develop independence as problem solvers.

## Developing Math Vocabulary

Learning vocabulary is a challenge in all academic areas, but teachers of math face additional challenges. In this course, participants will identify and address the major variables in vocabulary acquisition, use root words and cognates to help students learn and remember vocabulary terms, and try out a range of other fun, structured vocabulary instructional strategies.

## Strengthening Math Instruction: The Math Teaching Practices

In 2014, NCTM (the National Council of Teaching Mathematics) articulated the essential practices of strong math instruction. This course provides educators a broad but valuable opportunity to reflect on these areas.