

## TITLE OF WORKSHOP

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### Short description of the workshop: aims and underlying ideas

The Common Core State Standards: Mathematical Practices

The goal of this workshop is to inform educators ready to teach middle and high school mathematics topics that aligns with the Common Core State Standards for Mathematics, specifically the Mathematical Practices integrated with the Content Standards.

Workshop Structure: I will adopt the disciplinary literacy framework—the confluence of mathematical content knowledge, experiences, and skills with the integration of reading, writing, listening, speaking, and critical thinking so that students develop high-level mathematical understanding, reasoning and communication. The eight Standards for Mathematical Practice from the Common Core State Standards for Mathematics will be the framework for developing students’ mathematical literacy.

The workshop session will include a keynote lecture followed by smaller breakout workshops. The lecture and workshops will focus on best practices in aligning the Common Core State Standards for Mathematics and teaching to these standards. The workshops will include math tasks, dialogues, explorations, mini lessons, and peer teaching in small groups by mimicking an actual classroom; and reporting back to the larger group for feedback. There will be rich opportunities for interaction between in-service and higher education faculty.

Planned timeline	Topic	Material / Working format / presenter
15 minutes	Introductions and Review of Research Studies/Resources	Maria Mitchell PowerPoint Presentations and handouts
15 minutes	SMP1 Make sense of problems and persevere in solving them SMP6 Attend to Precision	A short video clip will be shown as implemented in a classroom showing SMP1 and SMP6 followed by Discussion and Activity

*Last names of the organizers*

15 minutes	SMP2 Reason abstractly and quantitatively SMP3 Construct viable arguments and critique the reasoning of others	A short video clip will be shown as implemented in a classroom showing SMP2 and SMP3 followed by Discussion and Activity
15 minutes	SMP4 Model with mathematics SMP5 Use appropriate tools strategically	A short video clip will be shown as implemented in a classroom showing SMP4 and SMP5 followed by Discussion and Activity
15 minutes	SMP7 Look for and make use of structure SMP8 Look for and express regularity in repeated reasoning	A short video clip will be shown as implemented in a classroom showing SMP7 and SMP8 followed by Discussion and Activity
15 minutes	Review and Summary Small/whole Group Reviews	