

Framework for Connecting the Student and Teaching Practices

Standards for Mathematical Practice (SMP)		Teacher Action Connections	Mathematics Teaching Practices (MTP)	
SMP1	Make sense of problems and persevere in solving them.	<p>Mathematics lessons align to the essential learning standards and teachers clearly communicate them to students (MTP1). Lessons include complex tasks (MTP2), opportunities for visible thinking (MTP8 and MTP4), and intentional questioning (MTP5) to promote deeper mathematical thinking (MTP6). Teachers design lessons from the student's perspective to provide multiple opportunities to make sense of the mathematics (MTP7).</p> <p>To build SMP1, teachers focus on MTP7 and MTP2.</p> <p>To build SMP2, teachers focus on MTP2 and MTP3.</p> <p>To build SMP3, teachers focus on MTP4 and MTP5.</p> <p>To build SMP4, teachers focus on MTP3 and MTP8.</p> <p>To build SMP5, teachers focus on MTP2 and MTP3.</p> <p>To build SMP6, teachers focus on MTP4 and MTP2.</p> <p>To build SMP7 and SMP8, teachers focus on tasks (MTP2).</p>	MTP1	Establish mathematics goals to focus learning.
SMP2	Reason abstractly and quantitatively.		MTP2	Implement tasks that promote reasoning and problem solving.
SMP3	Construct viable arguments and critique the reasoning of others.		MTP3	Use and connect mathematical representations.
SMP4	Model with mathematics.		MTP4	Facilitate meaningful mathematical discourse.
SMP5	Use appropriate tools strategically.		MTP5	Pose purposeful questions.
SMP6	Attend to precision.		MTP6	Build procedural fluency from conceptual understanding.
SMP7	Look for and make use of structure.		MTP7	Support productive struggle in learning mathematics.
SMP8	Look for and express regularity in repeated reasoning.		MTP8	Elicit and use evidence of student thinking.