



What do the Standards for Mathematical Practice “look like/sound like?”

SMP #	I SEE STUDENTS WHO:	I SEE TEACHERS WHO:
1. Make sense of problems and persevere in solving them	<ul style="list-style-type: none"> Analyze information Formulate a plan Show patience Persist 	<ul style="list-style-type: none"> Pose rich, open-ended tasks Probe with questioning Foster “grit” and perseverance Foster a collaborative environment
2. Reason abstractly and quantitatively	<ul style="list-style-type: none"> Relate real world quantities with mathematical notation Relate symbols, numbers, models, words and graphs 	<ul style="list-style-type: none"> Pose complex tasks Situate problems in real world contexts Move flexibly between concrete, visual and abstract representations
3. Construct viable arguments and critique the reasoning of others	<ul style="list-style-type: none"> Listen for information Use mathematical evidence in discourse and explaining thinking Question others 	<ul style="list-style-type: none"> Foster a safe, collaborative environment Model discourse Facilitate discourse with minimal involvement
4. Model with mathematics	<ul style="list-style-type: none"> Connect numbers and symbols Use representations (written and manipulative) to model Use technology efficiently and appropriately 	<ul style="list-style-type: none"> Pose real-world problems and tasks Foster use of mathematical models Provide and enable use of appropriate tools
5. Use appropriate tools strategically	<ul style="list-style-type: none"> Identify relevant resources Use tools to explore and understand mathematics Articulate why they chose a tool 	<ul style="list-style-type: none"> Provide students with appropriate tools Support student use of tools to explore and understand mathematics
6. Attend to precision	<ul style="list-style-type: none"> Use mathematical vocabulary Give thought to units and labels Calculate accurately and efficiently 	<ul style="list-style-type: none"> Give explicit instruction and expectations Use precise terminology at all times
7. Look for and make use of structure	<ul style="list-style-type: none"> Use underlying mathematical concepts to detect structures or patterns Apply what they know about prior mathematics to generalize solutions 	<ul style="list-style-type: none"> Encourage students to step back and view problems holistically Elicit responses from multiple students to uncover mathematical structures
8. Look for and express regularity in repeated reasoning	<ul style="list-style-type: none"> Articulate patterns and relationships Generalize mathematical relationships based on problem solving and discourse 	<ul style="list-style-type: none"> Allow students to formulate ideas based on observations and mathematical conjecture Pose problems and tasks that are not based solely on rules or procedures