Student Self-Assessment of the 8 Standards for Mathematical Practice

Date

	Model with athematics	3. Construct viable arguments and critique the reasoning of others	2. Reason abstractly and quantitatively.	1. Make sense of problems and perseveres in solving them.	Standard
☐ Check to see if an answer makes sense within the context of a situation and change a model when necessary	 Use math knowledge to solve real world problems Identify important quantities and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas Make assumptions and estimations to make a problem simpler 	1	 □ Make sense of quantities and relationships in problem situations □ Be able to create a visual to represent information and understand quantities □ Be able to create a visual of the problem in an orderly manner □ Consider and use the correct units involved □ Flexibly use properties of operations 	☐ Identify relevant information in a problem and consider different ways to solve it. ☐ Pull apart problem and identify givens, constraints, relationships, and goals ☐ Identify relationships in problem and set goal ☐ Plan a solution pathway and reach a solution through its steps ☐ Self monitor progress in problem and change solution pathway if needed ☐ Continually checks solution by asking, "Does this make sense?"	Can I?
				(4)	One example of when I did this well
	1) 2) 2)	31	A a		One example of when I didn't do this well
94	8			A X	One type of problem where this practice is especially important is

8. Look for and express regularity in repeated reasoning.		7. Look for and make use of structure.			6. Attend to precision.			5. Use appropriate tools strategically.							
	 Notice calculations that are done over and over and find shortcuts that do the same thing. Decide if results (during a problem, or the final answer) make 	three terms; be able to work with constants, coefficients, and variables; and know what operations can be done to or within the expression		 Recognize the patterns and important parts of big ideas and use these patterns to solve similar problems View complicated quantities as one phiert that is made up of 		every part of the problem, solution, or definition. Label accurately with correct units when measuring and graphing.	to leave values in fraction form, when to use decimals, etc.) Provide explanations that are thoughtful, detailed, and cover	☐ Calculate accurately using the best or fastest method. ☐ Express numerical answers with the right amount of	☐ Tell the meaning of symbols, including units of measure, and label parts accurately.	 Communicate clearly by using exact wording and specific definitions. 	questions or solve problems. Use resources like the ones listed above to explore topics and ideas at a deeper level.	compare, predict, and solve. Pick resources (website, book, notes) to help me ask	 Ruler, compass, protractor Use tools like the ones listed above to visualize, explore, 	 Concrete models (blocks, tiles, etc.) Digital Technology (computer, etc.) Pencil/paper 	Examples might include: • Calculator
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