

Standards for Mathematical Practices

Teacher(s):	Mathematical Topic(s):	Date:
1. Makes sense of problems and perseveres in solving them		
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Understands the meaning of the problem and looks for entry points to its solution <input type="checkbox"/> Analyzes information (givens, constraints, relationships, goals) <input type="checkbox"/> Designs a plan </div> <div style="width: 48%;"> <input type="checkbox"/> Monitors and evaluates the progress and changes course as necessary <input type="checkbox"/> Checks their answers to problems and ask, "Does this make sense?" </div> </div> <p>Comments: _____</p>		
2. Reason abstractly and quantitatively	4. Model with mathematics.	8. Look for and express regularity in repeated reasoning
<input type="checkbox"/> Makes sense of quantities and relationships <input type="checkbox"/> Represents a problem symbolically <input type="checkbox"/> Considers the units involved <input type="checkbox"/> Understands and uses properties of operations <p>Comments: _____</p>	<input type="checkbox"/> Apply reasoning to create a plan or analyze a real world problem <input type="checkbox"/> Applies formulas/equations <input type="checkbox"/> Makes assumptions and approximations to make a problem simpler <input type="checkbox"/> Checks to see if an answer makes sense and changes a model when necessary <p>Comments: _____</p>	<input type="checkbox"/> Notices repeated calculations and looks for general methods and shortcuts <input type="checkbox"/> Continually evaluates the reasonableness of their results while attending to details and makes generalizations based on findings <input type="checkbox"/> Solves problems arising in everyday life <p>Comments: _____</p>
3. Construct viable arguments and critique the reasoning of others	5. Use appropriate tools strategically.	7. Look for and make use of structure.
<input type="checkbox"/> Uses definitions and previously established causes/effects (results) in constructing arguments <input type="checkbox"/> Makes conjectures and attempts to prove or disprove through examples and counterexamples <input type="checkbox"/> Communicates and defends their mathematical reasoning using objects, drawings, diagrams, actions <input type="checkbox"/> Listens or reads the arguments of others <input type="checkbox"/> Decide if the arguments of others make sense <input type="checkbox"/> Ask useful questions to clarify or improve the arguments <p>Comments: _____</p>	<input type="checkbox"/> Identifies relevant external math resources (digital content on a website) and uses them to pose or solve problems <input type="checkbox"/> Makes sound decisions about the use of specific tools. Examples may include: <ul style="list-style-type: none"> <input type="checkbox"/> Calculator <input type="checkbox"/> Concrete models <input type="checkbox"/> Digital Technology <input type="checkbox"/> Pencil/paper <input type="checkbox"/> Ruler, compass, protractor <input type="checkbox"/> Uses technological tools to explore and deepen understanding of concepts <p>Comments: _____</p>	<input type="checkbox"/> Looks for patterns or structure <input type="checkbox"/> Recognize the significance in concepts and models and can apply strategies for solving related problems <input type="checkbox"/> Looks for the big picture or overview <p>Comments: _____</p>
6. Attend to precision.		
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Communicates precisely using clear definitions <input type="checkbox"/> States the meaning of symbols, calculates accurately and efficiently </div> <div style="width: 48%;"> <input type="checkbox"/> Provides carefully formulated explanations <input type="checkbox"/> Labels accurately when measuring and graphing </div> </div> <p>Comments: _____</p>		