

Grade K-12 Math Claim | Achievement Level Descriptors (Success Criteria)

OPEN RESPONSE -REQUIRING APPLICATION OF THE FOUR MATHEMATICAL CLAIMS					
SUCCESS CRITERIA	The student demonstrates a thorough ability to consistently:	The student demonstrates some ability to:	The student demonstrates beginning ability, but requires additional instruction to:	The student requires focused additional instruction to:	No Score
<p>Concepts and Procedures</p> <p>Applying mathematical concepts and procedures</p>	<p>Explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.</p> <ul style="list-style-type: none"> Complete accuracy and precision. Exemplary response. 	<p>Explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.</p> <ul style="list-style-type: none"> May include minor errors in precision and explanation. Complete response. 	<p>Explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.</p> <ul style="list-style-type: none"> May have several errors or misconceptions. Reasonably complete response. 	<p>Explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.</p> <ul style="list-style-type: none"> Incomplete Major errors or misconceptions. Partial response. 	No response or off-topic response.
<p>Problem Solving/Modeling and Data Analysis</p> <p>Using appropriate tools and strategies to solve real world scenarios and mathematical problems</p>	<p>Solve a range of complex, well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.</p> <p>Analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.</p>	<p>Solve a range of complex, well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.</p> <p>Analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems</p>	<p>Solve a range of complex, well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.</p> <p>Analyze complex, real-world scenarios and construct and using mathematical models to interpret and solve problems</p>	<p>Solve a range of complex, well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.</p> <p>Analyze complex, real-world scenarios and construct and using mathematical models to interpret and solve problems</p>	No response or off-topic response.
<p>Communicating Reasoning</p> <p>Demonstrating ability to support mathematical conclusions</p>	<p>The student demonstrates the thorough ability to clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others</p>	<p>The student demonstrates some ability to clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.</p>	<p>Construct viable arguments to support their own reasoning and to critique the reasoning of others</p> <ul style="list-style-type: none"> Requires additional support/scaffolding. 	<p>Construct a viable argument to support their own reasoning and to critique the reasoning of others</p> <ul style="list-style-type: none"> Requires additional support/scaffolding. 	No response or off-topic response.