

## Number Sense Rubric SNAP (Student Numeracy Assessment & Practice)

Competency	Emerging The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	Developing The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	Proficient The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	Extending Student demonstrates an insightful understanding of the concepts and competencies relevant to the expected learning
Communicating and Representing Picture Box Describe Picture	<ul> <li>Pictures do not show the value of the number</li> <li>Inaccurate</li> <li>Description and elaboration of pictorial representation is not evident</li> <li>Communication is not clear</li> </ul>	Pictures show some value in representing the number Partially accurate  Partial accuracy in describing and elaborating on pictorial representation AND/OR Partially communicated	Pictures are clearly communicated and represent the value of the number (e.g. base ten and/or symbols)  Accurate  Accurately describes and elaborates on pictorial representation (e.g. legend, key, or words)  Clearly communicated	<ul> <li>Pictures demonstrate deep understanding in multiple ways or show an understanding of number concepts beyond grade-level expectations</li> <li>Description is organized and clearly communicated</li> <li>If the expanded form is clear and accurate, base you score of "Proficient" or "Extending" on the picture and description</li> </ul>
Expanded Form	Emergent understanding of the value of digits in their place values	Partially accurate in demonstrating the value of each digit (40000 +2000+139=42139 OR 40000+100 +30+9=42139)	Accurately demonstrates the value of each digit (e.g. 500+20+4 or five hundreds, 2 tens, and 4 ones)	
Understanding and Solving 3 Equations	Emergent use of operations	Accurately uses grade appropriate operations in one or two equations	Accurately uses grade appropriate operations in all three equations (see Exemplars for examples)	Takes risks with challenging operations and shows proficiency beyond usual grade-level expectations
Connecting and Reflecting Real Life Connection	<ul> <li>A real-life example is not provided or is not connection to the number</li> </ul>	A partial connection to a real-life example is provided (e.g. "I bought a house for \$319")	<ul> <li>Connection to a real-life example is provided</li> <li>Demonstrates understanding of the number value (e.g. 5347 leaves on a small tree shows understanding; "I live at 5347 Elm St," does not)</li> </ul>	Demonstrates a deep understanding of the number value and provides one or more specific, accurate examples
Reflection	With support, student is not yet able to reflect on their learning	Can partially identify strengths and stretches     e.g. "Everything was easy. Nothing was hard."	With sentence frames and structure, can proficiently reflect on their learning e.g. "I feel confident with; was challenging; my goal is"	Demonstrates insightful understanding of problem- solving strategies, personal strengths, and/or goal areas
Reasoning and Analyzing Number Line	Emergent     understanding of the     placement of the     number on a number line	Partially correct estimate of placement of number on provided number line; benchmarks may be missing	Correct estimate of placement of number on provided number line with at least three benchmarks	Precise placement of number on the number line with multiple, accurate benchmarks
Counting Forwards and Backwards	Emergent understanding of place value, number sense, and/or skip counting	Partially complete and accurate	<ul> <li>Complete and accurate; demonstrates understanding but may include a</li> <li>minor recording error</li> </ul>	Complete, accurate, and organized with no errors



## Operations Rubric SNAP (Student Numeracy Assessment & Practice)

Competency	Emerging Student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning	Developing Student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning	Proficient Student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning	Extending Student demonstrates an insightful understanding of the concepts and competencies relevant to the expected learning
Communicating and Representing Entire Assessment	<ul> <li>Communication (written, pictorial or symbolic) of understanding is emerging</li> </ul>	Communicates (written, pictorial or symbolic) partial understanding	Communicates (written, pictorial or symbolic) clear understanding	Communicates (written, pictorial or symbolic) insightful understanding in multiple ways
Understanding and Solving Draw & Calculate Boxes	Emergent use of strategies to solve the problem and show understanding	Strategies chosen do not lead to an accurate solution     Reasoning to solve the problem is absent	Uses grade appropriate     strategies to correctly solve     the problem and show     understanding	Uses multiple strategies and/or insightful reasoning to correctly solve the problem and show understanding
Connecting and Reflecting Real Life Example/ Word Problem	Emerging ability to connect mathematical concepts to real life examples	Real life example and connections to mathematical concepts are partially developed	Real life example and connections to mathematical concepts are evident     The example shows a clear connection to the operation	Real life example and connections to mathematical concepts are insightful
Reflection	With support, student is not yet able to reflect on their learning	Can partially identify strengths and stretches     "Everything was easy; nothing was hard"	With sentence frames and structure, can proficiently reflect on their learning     I feel confident with; was challenging; my goal is"	Insightful reflection on mathematical thinking is evident
Reasoning and Analyzing Estimate & Justify Box	<ul> <li>Emerging ability to use         Estimation/mental math         strategies</li> <li>Estimate is not yet reasonable         and justification not provided</li> </ul>	Calculates rather than estimates  "I think it is 366 because 3x122=366" Strategy use is not justified "My guess is 300 because I used mental math"	Reasonable estimation provided  Clearly explains strategy  Ithink it is about 360 because I did 3x100=300 and 3x20=60 and added 300+60"	Reasonable estimation provided and insightfully explains the strategy     "I think it is about 360 because I did 3x100=300 and 3x20=60 and added 300+60 but the solution is greater than that because I