

	(1) Not Meeting	(2) Ideas	(3) Connections	(4) Extensions
Stem 1 Understands mathematical concepts and relationships <u>“Understand the math”</u>		Can a student demonstrate/illustrate understanding of mathematical concepts? Can a student explain a mathematical relationship?	Can a student use their knowledge to formulate strategies for computation and problem solving? Can a student identify connections between concepts?	Can a student create a problem using the mathematical concept? Can a student design a question involving the mathematical relationship?
Stem 2 Uses mathematical reasoning to analyze and solve problems <u>“Analyse the math”</u>		Can a student identify the pertinent information needed to solve a problem?	Can a student interpret the information given to create a plan and solve a problem?	Can a student propose a solution to real life situations using mathematical reasoning?
Stem 3 Explores and develops strategies for mental mathematics and estimation <u>“Mentally solving and checking if your solutions are reasonable”</u>		Can a student propose a reasonable solution using estimation? Can a student choose a strategy to mentally solve a problem?	Can a student apply their strategies for mental math? Can a student translate their knowledge to solving various problem mentally using concepts learned?	Can a student use their knowledge to efficiently estimate a solution? Can a student combine a variety of mental math strategies to disprove or confirm a solution?
Stem 4 Develops mathematical procedures and strategies for computation <u>“Do the math (Follow the steps)”</u>		Can a student show their strategies for computation?	Can a student modify their process to solve a variety of problems?	Can a student justify their own methods for effective computation?
Stem 5 Models, represents and communicates mathematical ideas <u>“Use pictures, symbols, and words to represent the math”</u>		Can a student communicate or represent their understanding of concepts by rephrasing the information provided to them by the teacher?	Can a student communicate concepts and elaborate on their understanding through a variety of methods?	Can a student can communicate their understanding by making inferences based on skills learned?

