

Assessing Student Work

MATH Problem Solving: Evidence and Action

PROBLEM: _____ STUDENT: _____

Evidence	Action

Novice	Apprentice	Practitioner	Expert
No strategy is chosen, or a strategy is chosen that will not lead to a solution.	A partially correct strategy is chosen, or a correct strategy for only solving part of the task is chosen.	A correct strategy is chosen based on the mathematical situation in the task.	An efficient strategy is chosen and progress toward a solution is evaluated.
Little or no evidence of engagement in the task is present.	Evidence of drawing on some relevant previous knowledge is present , showing some relevant engagement in the task.	Planning or monitoring of strategy is evident.	Adjustments in strategy, if necessary, are made along the way, and/or alternative strategies are considered.
		Evidence of solidifying prior knowledge and applying it to the problem-solving situation is present.	Evidence of analyzing the situation in mathematical terms, and extending prior knowledge is present.
		<i>*Note: The Practitioner must achieve a correct answer.</i>	<i>*Note: The Expert must achieve a correct answer.</i>