

Assessing Student Work
MATH
Problem Solving: Evidence and Action

Problem: _____ Student: _____

| Evidence | Action |
|----------|--------|
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| 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. |
| | | *Note: The Practitioner must achieve a correct answer. | *Note: The Expert must achieve a correct answer. |