

## Simplified Rubric for Assessing PROBLEM SOLVING

	Novice	Developing	Proficient
<p><b><u>Problem Solving:</u></b> Students will design, evaluate, and implement a strategy to answer open-ended questions or achieve desired goals.</p>	<p>Student demonstrates a limited ability to identify a problem statement and approaches for solving the problem, provides vague and cursory solutions that do not directly address a problem, and reviews results superficially with no consideration of need for further work.</p>	<p>Student demonstrates the ability to construct a problem statement, proposes multiple solutions that suggest comprehension of the problem, some of which apply within a specific context, and reviews results relative to the problem with some consideration of need for further work.</p>	<p>Student demonstrates the ability to construct a clear and insightful problem statement and to identify multiple approaches to solve a problem that indicate insightful comprehension of the problem and carefully addresses multiple contextual factors and thoroughly reviews results relative to the problem with specific consideration of need for further work.</p>

### Details Behind Simplified Rubric

	Novice	Developing	Proficient
<p><b><u>Problem Solving:</u></b> Students will design, evaluate, and implement a strategy to answer open-ended questions or achieve desired goals.</p>	<ul style="list-style-type: none"> <li>• Student demonstrates a limited ability to identify a problem statement or related contextual factors.</li> <li>• Student identifies approaches for solving the problem that do not apply to the specific context.</li> <li>• Student proposes a solution/hypothesis that is vague and difficult to evaluate.</li> <li>• Student provides a superficial solution that is implemented in a manner that does not directly address the problem statement</li> <li>• Student reviews results superficially with no consideration of need for further work.</li> </ul>	<ul style="list-style-type: none"> <li>• Student demonstrates the ability to construct a problem statement with evidence of most relevant contextual factors.</li> <li>• Student identifies multiple approaches to solve a problem, only some of which apply within a specific context.</li> <li>• Student proposes a solution/hypothesis that indicates comprehension of the problem.</li> <li>• Student provides a solution that is adequate and address multiple contextual factors of the problem.</li> <li>• Student reviews results relative to the problem with some consideration of need for further work.</li> </ul>	<ul style="list-style-type: none"> <li>• Student demonstrates the ability to construct a clear and insightful problem statement with evidence of all relevant contextual factors.</li> <li>• Student identifies multiple approaches to solve a problem that apply within a specific context.</li> <li>• Student proposes multiple solutions/ hypotheses that indicate insightful comprehension of the problem.</li> <li>• Student provides a solution that is insightful and elegant and implements the solution in a manner that thoroughly addresses multiple contextual factors of the problem.</li> <li>• Student thoroughly reviews results relative to the problem with specific consideration of need for further work.</li> </ul>