



Creative and Practical Problem Solving Scoring Criteria

PERFORMANCE INDICATOR	BEGINNING 1	DEVELOPING 2	PROFICIENT 3	EXPANDING 4
A. Observe and evaluate situations in order to define problems.	I can <ul style="list-style-type: none">• Make observations about a problem situation.	I can <ul style="list-style-type: none">• Identify variables that influence a problem situation.	I can <ul style="list-style-type: none">• Articulate the problem and identify constraints, based on observations and collect related information from multiple sources.	I can <ul style="list-style-type: none">• Analyze situations to define complex problems and explain their relevance within the world; Or <ul style="list-style-type: none">• Create alternative evidence that expands upon proficient.
B. Frame questions, make predictions, and design data collection and analysis strategies.	I can <ul style="list-style-type: none">• Ask questions about a situation or phenomenon.	I can <ul style="list-style-type: none">• Take information into consideration when making predictions.	I can <ul style="list-style-type: none">• Identify tools and design procedures needed for collecting, managing, and analyzing information.	I can <ul style="list-style-type: none">• Justify my data collection strategy by analyzing strengths and weaknesses; Or <ul style="list-style-type: none">• Create alternative evidence that expands upon proficient.
C. Identify patterns, trends, and relationships that apply to solutions.	I can <ul style="list-style-type: none">• Determine whether my data are sufficient or if I need to gather more data.	I can <ul style="list-style-type: none">• Identify the most important or relevant data I have gathered.	I can <ul style="list-style-type: none">• Explain patterns and/or trends (including outliers) in the data and the relationship to the proposed solution.	I can <ul style="list-style-type: none">• Prioritize the significance of the patterns, trends, and relationships as they impact the design of possible solutions; Or <ul style="list-style-type: none">• Create alternative evidence that expands upon proficient.



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<p>D. Analyze, evaluate, and synthesize evidence, arguments, claims, and beliefs.</p>	<p>I can</p> <ul style="list-style-type: none">Identify evidence to support a claim or argument.	<p>I can</p> <ul style="list-style-type: none">Summarize the relationship between the evidence and the argument or claim.	<p>I can</p> <ul style="list-style-type: none">Analyze, synthesize, and cite evidence to develop a claim or argument.	<p>I can</p> <ul style="list-style-type: none">Evaluate the strengths and weaknesses of the argument; <p>Or</p> <ul style="list-style-type: none">Create alternative evidence that expands upon proficient.
<p>E. Generate a variety of solutions, use evidence to build a case for best responses, critically evaluate the effectiveness of responses, and repeat the process to generate alternate solutions.</p>	<p>I can</p> <ul style="list-style-type: none">Identify multiple solutions.	<p>I can</p> <ul style="list-style-type: none">Use evidence to identify a possible solution and its strengths and weaknesses.	<p>I can</p> <ul style="list-style-type: none">Generate and consider a range of solutions and compare the strengths and weaknesses of each, using evidence to justify the choice of solution.	<p>I can</p> <ul style="list-style-type: none">Critique the potential effectiveness of a range of solutions with careful consideration of real-life constraints; <p>Or</p> <ul style="list-style-type: none">Create alternative evidence that expands upon proficient.
<p>F. Identify opportunities for innovation and collaboration.</p>	<p>I can</p> <ul style="list-style-type: none">Identify a real-life situation where the needs were met through innovation and/or collaboration.	<p>I can</p> <ul style="list-style-type: none">Identify an opportunity for new thinking or creative problem solving.	<p>I can</p> <ul style="list-style-type: none">Identify a range of peers and field experts/ organizations to support my creative problem solving.	<p>I can</p> <ul style="list-style-type: none">Seek out a variety of experts, peers, experiences, or sources of information that could add additional viewpoints or insights; <p>Or</p> <ul style="list-style-type: none">Create alternative evidence that expands upon proficient.



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<p>G. Use a range of tools, including technology, to solve a problem.</p>	<p>I can</p> <ul style="list-style-type: none">• Identify a range of appropriate tools, including digital technology, to help solve a problem.	<p>I can</p> <ul style="list-style-type: none">• Use a tool to solve a problem and articulate and/or explain why the tool is the best choice.	<p>I can</p> <ul style="list-style-type: none">• Use multiple tools together to effectively solve a problem.	<p>I can</p> <ul style="list-style-type: none">• Develop generalizations about the tools used and apply them to new problems or situations; <p>Or</p> <ul style="list-style-type: none">• Create alternative evidence that expands upon proficient.
<p>H. Persist in solving challenging problems and learn from failure.</p>	<p>I can</p> <ul style="list-style-type: none">• Make an attempt to solve a challenging problem.	<p>I can</p> <ul style="list-style-type: none">• Learn from trial and error how to improve my efforts over time.	<p>I can</p> <ul style="list-style-type: none">• Learn from experience and continue to put forth effort even after trying several times.	<p>I can</p> <ul style="list-style-type: none">• Apply my learning and adapt to new challenges; <p>Or</p> <ul style="list-style-type: none">• Create alternative evidence that expands upon proficient.