

Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

**1. Problem Solving and Critical Thinking**

Indicator	Exemplary	Competent	Emerging	Novice
A. Observe and evaluate situations in order to define problems and select strategies or approaches.	<p>I can</p> <ul style="list-style-type: none"> <li>analyze situations to define complex problems</li> <li>choose strategies or approaches that address the problem and constraints.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>summarize observations and information from various sources to describe a problem;</li> <li>choose strategies or approaches that fit the problem.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>make observations about situations</li> <li>make connections among observations to identify a possible problem.</li> <li>apply strategies or approaches to a problem.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>make observations about situations.</li> <li>identify possible problems</li> </ul>
B. Identify patterns, trends and relationships.	<p>I can</p> <ul style="list-style-type: none"> <li>Identify data crucial to the problem.</li> <li>identify patterns and trends in data most relevant to the problem.</li> <li>assess impact of patterns and trends on possible solutions.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>identify data relevant to the problem.</li> <li>identify patterns and trends in data.</li> <li>identify relevant relationships among patterns and trends.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>identify data related to the problem.</li> <li>identify simple patterns and trends in data.</li> <li>identify possible connections between patterns, trends and/or solutions.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>select data</li> <li>name patterns and trends in data</li> </ul>
C. Frame Questions, make predictions, and design and use data collection and analysis strategies.	<p>I can</p> <ul style="list-style-type: none"> <li>frame questions and make predictions considering various aspects of the problem to determine what data is needed.</li> <li>design and use a data collection system that leads to valid results.</li> <li>analyze and interpret data and determine what errors, if any, affect results.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>Frame questions and make predictions to determine what data is needed.</li> <li>create and use a data collection system to address the identified needs.</li> <li>analyze data and determine whether data is sufficient and valid.</li> <li>identify errors in the solution's design.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>Frame questions and make predictions related to the problem to determine what data is needed</li> <li>use a data collection system that partially addresses identified needs</li> <li>organize data collected</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>Identify components related to the problem.</li> <li>gather data related to the problem</li> </ul>
D. Use evidence from various sources, disciplines and/or contexts to make decisions, draw conclusions, and solve problems.	<p>I can</p> <ul style="list-style-type: none"> <li>synthesize evidence from multiple and varied sources.</li> <li>Integrate evidence and reasoning to make decisions, draw conclusions, or solve problem in a unique way.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>select relevant evidence from multiple and varied sources.</li> <li>make decisions, draw conclusions, or solve a problem based on evidence and reasoning</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>summarize information from multiple sources.</li> <li>make decisions, draw conclusions, or generate solutions related to the problem.</li> </ul>	<p>I can</p> <ul style="list-style-type: none"> <li>identify related information from multiple sources.</li> <li>take initial steps related to the problem.</li> </ul>
E. Persist in solving challenging problems, adapting strategies and approaches as needed.	<p>I can:</p> <ul style="list-style-type: none"> <li>make multiple attempts, if needed, by choosing appropriate strategies until a solution is reached in unique and creative ways.</li> </ul>	<p>I can:</p> <ul style="list-style-type: none"> <li>make multiple attempts, if needed, to reach a solution by adjusting strategies in response to the problem.</li> </ul>	<p>I can:</p> <ul style="list-style-type: none"> <li>attempt to reach a solution</li> <li>apply initial strategies to solving a problem</li> <li>use different strategies when original attempts are not effective.</li> </ul>	<p>I can:</p> <ul style="list-style-type: none"> <li>identify strategies that could be used to solve a problem.</li> <li>identify when strategies are not effective.</li> </ul>