

Learning Expectation: Problem-Solving

Students work independently and collaboratively to strategize solutions to open-ended questions or achieve a desired goal.

Expectations	Exceeds	Meets	Near	Below
<i>Defines the main problem and recognizes secondary aspects</i>	<ul style="list-style-type: none"> • Demonstrates a broad understanding of the problem and clearly identifies embedded elements • Specifically identifies the intricate relationship between secondary aspects and the main problem 	<ul style="list-style-type: none"> • Demonstrates a broad understanding of the problem and its elements • Able to give basic overview of the relationship between the secondary aspects and main problem 	<ul style="list-style-type: none"> • Demonstrates a general understanding of the main problem • May not be able to identify any secondary aspects 	<ul style="list-style-type: none"> • Incorrectly or partially identifies main problem • Recognizes few or no secondary aspects
<i>Gathers and interprets data to develop appropriate strategies and essential questions to solve the problem</i>	<ul style="list-style-type: none"> • Analyzes insightful questions through high-level reasoning/interpretations of data/facts given • Independently and/or collaboratively gathers and applies relevant information and data from a variety of conventional and unconventional resources • Examines patterns/inconsistencies; creates insightful deductions on how they affect solution/product • Can critique content 	<ul style="list-style-type: none"> • Asks pertinent questions through clear reasoning/interpretations of data/ facts given • Independently and/or collaboratively gathers and applies sufficient information and data from a variety of resources and by using appropriate tools/methods • Identifies patterns/inconsistencies; identifies broadly how they affect solution/product • Categorizes content 	<ul style="list-style-type: none"> • Asks some questions • Selects incomplete information or data from limited number of resources • Struggles to work independently or collaboratively in using appropriate tools/methods to gather and/or apply information and data • Recognizes patterns/inconsistencies; understands that they affect solution/product but unable to explain how • Recognizes basic content areas 	<ul style="list-style-type: none"> • Fails to question data • Selects incorrect or invalid information from few if any resources • Inability or refusal to work independently or collaboratively • Detects no inconsistencies and/or patterns • Misses major content areas
<i>Develops and implements clear strategies using previous knowledge and new information</i>	<ul style="list-style-type: none"> • Self-initiates to further develop knowledge based on application of prior knowledge to current problem • Takes calculated risks to develop new and unusual solutions to the problem • Establishes a singular clear and concise plan to solve or address the problem with several alternatives in place for adaptation • Interpretation and analysis clearly created product or solution that is creative or innovative 	<ul style="list-style-type: none"> • Independently applies previous knowledge to current problem • Develops and integrates new information to problem solving process • Establishes a singular clear and concise plan to solve or address the problem with a possible alternative strategy • Interpretation and analysis clearly create product or solution that is conventional and acceptable 	<ul style="list-style-type: none"> • Needs guidance in applying previous knowledge to current problem • Assistance required in developing and integrating new information to problem solving process • Establishes a singular plan that needs further development to make it clear and concise; offers no or few alternative strategies • Interpretation and analysis is present but guided in attempting to create a product or solution 	<ul style="list-style-type: none"> • Applying previous knowledge is difficult even with guidance • Struggles to develop new information with assistance; unable to do it independently • Unable to establish a singular plan or approach to a problem without assistance • Interpretation and/or analysis incomplete or incorrect
<i>Evaluates the solution and effectively reflects upon results for future performance</i>	<ul style="list-style-type: none"> • Can decisively and specifically defend product/solution • Identifies and critiques conclusion, implications, and consequences of product/solution • Intrinsically works toward further work through adaptations and adjustments by using reflections, reviews • Independently seeks external critiques/feedback 	<ul style="list-style-type: none"> • Can broadly but clearly defend product/solution • Identifies and discusses conclusions, implications, and consequences of solution • Reflects and reviews results relative to the problem in order to adjust or adapt future solutions • Accepts external critiques/feedback 	<ul style="list-style-type: none"> • Attempts to defend product/solution but may have inconsistencies or need corrections • Needs assistance to identify and discuss conclusions, implications, and consequences of product/solution • Reflects and reviews results relative to problem but requires guidance in order to adjust or adapt future solutions • Still working towards a cohesive product/solution in order to allow for external critiques and/or further work 	<ul style="list-style-type: none"> • Difficult/impossible to defend due to inconsistencies or erroneous product/solution • Unable or unwilling to discuss conclusions, implications, and consequences of product/solution • Reflection and review unrelated to problem or no adaptations/adjustments attempted • No or minimal product/solution available for critique