Rubric: Problem Solving

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| **Expectation 3 – We expect the students of Enfield High School to solve problems using a variety of skills and reasoning strategies across all disciplines**  *\*Aligned with Connecticut Common Core Standards* | |
| 4  (Advanced) | Student meets most or all of the following indicators |
| * Consistently understands what the problem is asking or what problem the situation poses and can identify the pertinent given or available information * Consistently identifies, implements, or develops an efficient and effective solution * Consistently and fully explains the thought process associated with a selected strategy * Consistently constructs viable arguments to support their own reasoning and to critique the reasoning of others * Consistently checks for reasonableness of intermediate results and perseveres throughout the solution process * Uses modeling, when appropriate, to increase understanding |
| 3  (Proficient) | Student meets most or many of the following indicators |
| * Demonstrates the ability to understand what the problem is asking or what problem the situation poses and can identify the pertinent given or available information * Demonstrates the ability to identify, implement, or develop an efficient and effective solution strategy * Demonstrates the ability to explain the thought process associated with a selected strategy * Demonstrates the ability to construct viable arguments to support their own reasoning and to critique the reasoning of others * Demonstrates the ability to check for reasonableness of intermediate results and to persevere throughout the solution process * Demonstrates the ability to use modeling, when appropriate and when asked to, to increase understanding |
| 2  (Basic) | Student meets most or many of the following indicators |
| * Displays limited ability to understand what the problem is asking or what problem the situation poses and can identify the pertinent given or available information * Displays limited ability to identify, implement, or develop an efficient and effective solution strategy * Displays limited ability to explain the thought process associated with a selected strategy * Displays limited ability to construct viable arguments to support their own reasoning and to critique the reasoning of others * Displays limited ability to check for reasonableness of intermediate results and to persevere throughout the solution process * Displays limited ability to use modeling to increase understanding |
| 1  (Below Basic) | Student meets most or all of the following indicators |
| * Fails to understand what the problem is asking or what problem the situation poses and can identify the pertinent given or available information * Fails to identify, implement, or develop an efficient and effective solution strategy * Fails to explain the thought process associated with a selected strategy * Fails to construct viable arguments to support their own reasoning and to critique the reasoning of others * Fails to check for reasonableness of intermediate results and to persevere throughout the solution process * Fails to use modeling to increase understanding |