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
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| 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
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| 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
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| 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
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