_____   _____   _____   _____
Student Name   **Subject/Teacher**   **Assignment**   **Date**

MSMHS Rubric 3: Problem Solving

Student will make decisions and solve problems independently and collaboratively.   *6/2016 Edition*

Criteria	Exemplary	Approaching Exemplary	Proficient	Approaching Proficient	Beginning
Problem Analysis and Planning	• Uses existing knowledge to create well developed questions for investigation • Creates a plan without assistance • Locates and uses best resources available	←	• Uses existing knowledge to create appropriate questions for investigation • Creates a plan with minimal assistance • Locates and uses appropriate resources	←	• Does not create appropriate questions for investigation • Needs ample assistance to create a plan • Resources used are not appropriate
Data Modeling	• Arranges data in a format that is logical, appropriate, and accurately labeled • Defines all of the relationships between the important variables	←	• Arranges data in a format that is logical and appropriate • Defines the essential relationships between the important variables, but misses advanced connections	←	• Arrange data in a format that is not logical • Does not define any relationship between the important variables
Solving with Precision	• Clearly and accurately solves the problem without assistance • Solution and process is error free	←	• Accurately solves the problem with minimal assistance • Solution process may include minor errors	←	• Incorrectly solves the problem • Does not present a logical process for solving the problem
Justification and Clarity of Solution	• Describes methodology for the solutions, explains why and justifies reasoning with details • Demonstrates how underlying concepts relate to the problem and makes interdisciplinary connections (when applicable) • Presents solution and ideas coherently and precisely to appropriate audience	←	• Describes the process used to arrive at an answer, but provides only some reasoning with details • Demonstrates how underlying concepts relate to the problem, with minor errors • Presents solution and ideas to appropriate audience	←	• Displays limited or no knowledge of how to evaluate arguments • Does not demonstrate how underlying concepts relate to the problem • Does not present a solution
Reflection	• Reflects throughout the problem-solving process using specific evidence	←	• Reflects on the problem-solving process using specific evidence	←	• Needs assistance reflecting on the problem solving process

Additional Comments: