



Merced Scholars Charter School Mathematics Problem Solving Rubric



Student Name: _____ Date: _____

Project Title: _____

Category	4 - Exceeds Standards	3 - Meets Standards	2 – Standards Barely Met	1 – Standards Not Met	Score
<i>Identify The Problem</i>	<ul style="list-style-type: none"> Identifies relevant and irrelevant information and sets up problem and sets up problem correctly. Reads and understands questions. 	<ul style="list-style-type: none"> Able to understand question and set up problem correctly. Able to understand most important information from problem. 	<ul style="list-style-type: none"> Sets up problem incorrectly, cannot understand directions. Has problems identifying relevant information. 	<ul style="list-style-type: none"> Cannot set up problem. Cannot distinguish between relevant and irrelevant information. 	
<i>Solve The Problem</i>	<ul style="list-style-type: none"> Uses a variety of problem-solving strategies such as looking for patterns, models, diagrams, guess and check, elimination, and working backwards. All problems solved correctly. 	<ul style="list-style-type: none"> Able to use many/most problem solving strategies. Most problems correct (80%-90%). 	<ul style="list-style-type: none"> Able to use few problem solving strategies. Many errors present. 	<ul style="list-style-type: none"> Uses no problem solving strategies. Cannot solve problems or problems solved incorrectly. 	
<i>Shows Work</i>	<ul style="list-style-type: none"> Shows step by step process. Justifies/proves/ explains each step. All rough drafts, outlines, diagrams, scratch paper included. 	<ul style="list-style-type: none"> Shows step by step process. All work shown and turned in. 	<ul style="list-style-type: none"> Doesn't show step by step process. Shows/turns in some work. 	<ul style="list-style-type: none"> Shows no work. Just turns in answers. 	
<i>Verifies The Solution</i>	<ul style="list-style-type: none"> Verifies reasonableness of solution. Displays answer correctly. Uses correct labels/ terminology. Able to explain process verbally and in writing. Substitutes answer in problem to verify correctness. 	<ul style="list-style-type: none"> Checks answer by substitution. Displays answer correctly mostly. Uses correct labels/ terminology. 	<ul style="list-style-type: none"> Checks answer. Cannot explain solution to others. Minimal correct labels/terminology. 	<ul style="list-style-type: none"> Does not check solution. No labels or terminology. 	

Category	4 - Exceeds Standard	3 - Meets Standard	2 – Standards Barely Met	1 – Standards Not Met	Score
<i>Content</i>	<ul style="list-style-type: none"> Derives proper equation and formula and able to use math terminology. Proper use of math skills with no errors. 	<ul style="list-style-type: none"> Derives an equation or uses a formula. Makes 1-2 minor mathematical errors. 	<ul style="list-style-type: none"> Can use an equation when given. Has 1-2 major math errors. 	<ul style="list-style-type: none"> Cannot use equations or formulas. More than 2 major math errors. 	

Student Comments and Self-Reflection: _____

Teacher Comments: _____
