PROBLEM SOLVING SCHOOL WIDE RUBRIC
CLAIM, EVIDENCE, REASONING

CRITERIA	POINTS	BEGINNING	POINTS	PROFICIENT	POINTS	EXEMPLARY	POINTS EARNED
PROBLEM DEVELOPMENT -CLAIM- (9 POSSIBLE POINTS)	1	Uses limited prior knowledge to frame a question but is unable to make a valid prediction as to the outcome (claim)	2	Uses prior knowledge to frame questions and make somewhat valid predictions as to the outcome (claim)	3	Uses prior knowledge to frame effective questions and make valid predictions as to the outcome (claim)	
	1	Needs support to develop an effective plan of action	2	Able to develop an effective plan of action with support; plan can be duplicated by others	3	Able to independently develop an effective plan of action that can be duplicated by others	
	1	Needs continuous oversight while using a range of tools	2	Able to correctly use a range of tools with some assistance	3	Able to independently and correctly use a range of tools	
DATA COLLECTION -EVIDENCE- (3 POSSIBLE POINTS)	1	Data is not in a format that is logical, may not connect to the problem, and may not be accurately labeled	2	Organizes most data in a format that is logical, connects to the problem, and is accurately labeled.	3	Organizes all data in a format that is logical, connects to the problem, and is accurately labeled. Data is collected, not calculated.	
SOLVING THE PROBLEM -ANALYSIS- (6 POSSIBLE POINTS)	1	Able to identify some of the patterns, trends and relationships as they apply to the solution	2	Able to identify most of the patterns, trends and relationships as they apply to the solution	3	Able to identify patterns, trends and relationships as they apply to the solution	
	1	Some calculations (where appropriate) are shown, are correct and includes appropriate values and units	2	Most calculations (where appropriate) are shown, are correct and includes appropriate values and units	3	All calculations (where appropriate) are shown, are correct and includes appropriate values and units	

CRITERIA	POINTS	BEGINNING	POINTS	PROFICIENT	POINTS	EXEMPLARY	POINTS EARNED
REASONING (12 POSSIBLE POINTS)	1	Some data is incorrectly presented and does not support the answer (claim) to the problem	2	Uses data (evidence) and analysis of the data to support the answer (claim) to the problem correctly most of the time	3	Effectively and correctly uses data (evidence) and analysis to support the answer (claim) to the problem	
	1	Some concepts are used correctly in explaining how the problem was solved or (not solved). Minimal details	2	The concepts used to explain how the problem was solved (or not solved) are correct but lack details	3	Appropriate concepts are used correctly in explaining how the problem was solved or (not solved) and include details	
	1	Issues with the results are not discussed nor are there suggestions for improvements to the process	2	Issues with the results are discussed and explained effectively	3	Issues with results are discussed and explained and effectively and improvements to the process are suggested.	
	1	Many errors with vocabulary, grammar, punctuation, and spelling throughout	2	Vocabulary, grammar, punctuation and spelling is mostly correct throughout	3	Vocabulary, grammar, punctuation and spelling is correctly used throughout	
TECHNOLOGY (3 POSSIBLE POINTS)	1	Ineffective and/or unethical use of technology/tools/materials	2	Somewhat effective & ethical use of technology/tools/materials	3	Highly effective & ethical use of technology/tools/materials	
						TOTAL POINTS =	

EVALUATION SCALE - POINT BASED	COMMENTS:
BEGINNING: 1-11 Points APPROACHING PROFICIENT: 12-18 Points PROFICIENT: 19-22 Points APPROACHING EXEMPLARY: 23-29 Points EXEMPLARY: 30-33 Points	