Colley Method Rubric

	1. Standard Not Met	2. Approaching Standard	3. Standard Met	4. Exceeding Standard
HSN.VM.C.6 - Number and Quantity: Vector & Matrix Quantities Use matrices to represent and manipulate data.	Struggled to understand matrices.	Understood matrices.	Used matrices to represent and manipulate data.	Used matrices to represent and manipulate data. Used this concept to solve real-world problems.
HSN.VM.C.11.A - Number and Quantity: Vector & Matrix Quantities Multiply a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector.	Struggled to understand how to multiply a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector.	Understood how to multiply a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector.	Multiplied a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector.	Clearly demonstrated and explained how to multiply a vector by a matrix of suitable dimensions to produce another vector OR multiplied a vector by a matrix to solve a real-world problem.
MP.1.B - Mathematical Practices Analyze givens, constraints, relationships, and goals.	Identified the goals within a problem.	Identified givens, constraints, relationships, and goals within a problem.	Analyzed and explained givens, constraints, relationships, and goals within a problem.	Evaluated and explained givens, constraints, relationships, and goals within a problem.
MP.1.C - Mathematical Practices Make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt.	Described what a solution could possibly look like.	Made estimates about the form and meaning of the solution.	Made estimates about the form and meaning of the solution. Planned a solution pathway rather than simply jumping into a solution attempt.	Made models or estimates about the form and meaning of the solution. Planned a solution with multiple possible pathways rather than simply jumping into a solution attempt.

MP.1.F - Mathematical Practices Explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends.	Explained similarity between equations and word problems.	Explained similarity between equations, verbal descriptions, tables, or graphs. Drew diagrams or graphed data.	Explained similarity between equations, verbal descriptions, tables, and graphs. Drew diagrams of important features and relationships, graphed data, and searched for regularity or trends.	Compared and contrasted equations, verbal descriptions, tables, and graphs. Drew diagrams of and explained important features and relationships, graphed data, and explained regularity or trends.
MP.1.H - Mathematical Practices Check answers to problems using a different method.	Double checked solutions to a problem.	Identified a different method to check the solutions of a problem.	Used different methods to check the solutions of a problem.	Used different methods to check the solutions of a problem. Evaluated different methods to use.
MP.3.D - Mathematical Practices Justify conclusions, communicate them to others, and respond to the arguments of others.	Communicated conclusions to others.	Justified conclusions and communicated them to others.	Justified conclusions, communicated them to others, and responded to the arguments of others.	Justified and evaluated conclusions, clearly communicated them to others, and responded to the arguments and feedback of others.
MP.3.F - Mathematical Practices Compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and if there is a flaw in an argument explain what it is.	Identified differences of two arguments.	Compared the effectiveness of two plausible arguments.	Compared the effectiveness of two plausible arguments. Distinguished correct logic or reasoning from flawed logic or reasoning. If there is a flaw in an argument, explained what it is.	Evaluated the effectiveness of multiple plausible arguments. Distinguished correct logic or reasoning from flawed logic or reasoning. If there is a flaw in an argument, explained what it is and the impact it has.

MP.5.C - Mathematical Practices Analyze graphs of functions and solutions generated using a graphing calculator. Detect possible errors by strategically using estimation and other mathematical knowledge (High School).	Generated graphs using a graphing calculator.	Generated graphs of functions and solutions using a graphing calculator.	Analyzed graphs of functions and solutions generated using a graphing calculator. Detected possible errors by strategically using estimation and other mathematical knowledge.	Analyzed complex graphs of functions and solutions generated using a graphing calculator. Detected and corrected possible errors by strategically using estimation and other mathematical knowledge.
MP.7.A - Mathematical Practices Look closely to discern a pattern or structure.	With support, recognized a pattern or structure in a problem.	Recognized a pattern or structure in a problem.	Looked closely at problems to discern a pattern or structure.	Looked closely at complex problems to discern highly useful patterns or structures.