



c) An ability to design a system, component or process to satisfy realistic constraints.

Criterion	Initial	Emerging	Developed	Excellence
The student based on the specifications of the problem, extracts requirements and variables to model it mathematically.	The student does not recognize the specifications, nor identifies the input variables, nor raises math equations to solve the problem.	The student recognizes some of the specifications, can identify some variables and correctly raises some mathematical equations to solve the problem.	The student recognizes all specifications, can identify all the variables and raises correctly mathematics equations to solve the problem but some have flaws.	The student recognizes all specifications, can identify all the variables and correctly raises mathematical equations to solve the problem.
The student solves the problem mathematically, finding several possible solutions.	The student fails to solve the problem.	The student applies a mathematical method and partially solves the problem.	The student applies the correct mathematical method and finds an incorrect solution.	The student applies the correct mathematical method and finds one or more suitable solutions.
The student chooses the best possible solution based on economic, technical criteria or other realistic constraints and implements this solution.	The student does not choose a solution based on economic, technical criteria or other realistic constraints nor implements it.	The student chooses an incorrect solution not based on economic technical criteria or other realistic constraints and not implements it.	The student chooses a correct solution but not adequately justify the chosen criteria and the implementation is incomplete.	The student chooses a correct solution based on economic, technical criteria or other realistic constraints, and implements it.