

Final Product Rubric - A1b

Problem Solving Rubric - A1b Improving a System

To "Exceed Standard" for the final product, students may not be rated as "Below Standard" in any one category and must receive "Exceeds Standard" in the majority of categories.

Category	Exceeds Standard	Meets Standard	Below Standard
Aim of the Project	Provides a detailed plan for the project indicating the problem to be solved, goals to be met, and the procedure used to develop the project.	Provides an adequate plan for the project indicating the problem to be solved, goals to be met, and the procedure used to develop the project.	Does not provide a plan for the project that indicates the problem to be solved, goals to be met, or the procedure used to develop the project.
Structure of the System	Provides an excellent explanation of the structure of the system including the logic and sequence. Indicates in an exceptional manner the principles underlying the system.	Provides an adequate explanation of the structure of the system. Indicates in a clear manner the principles underlying the system.	Does not clearly explain the structure of the system. Fails to indicate the principles underlying the system.
Analysis of the System	Uses detailed analysis to demonstrate an exceptional understanding of the functional, aesthetic, social, or environmental requirements of the system. Thoroughly compares and contrasts the system to other systems and takes into account central requirements and underlying principles.	Uses analysis to demonstrate an adequate understanding of the functional, aesthetic, social, or environmental requirements of the system. Adequately compares and contrasts the system to other systems and takes into account central requirements and underlying principles.	Uses little analysis to demonstrate understanding of the functional, aesthetic, social, or environmental requirements of the system. Shows little or no comparison of the system to other systems and does not take into account central requirements and underlying principles.
Evaluation of the System	Insightfully evaluates the operation of the system using qualitative or quantitative measurements. Uses data to thoroughly describe the strategies used to evaluate and improve the system.	Evaluates the operation of the system using qualitative or quantitative measurements. Uses data to describe the strategies used to evaluate and improve the system.	Fails to evaluate the operation of the system using qualitative or quantitative measurements. Offers limited data to describe the strategies used to evaluate and improve the system.

Examples of improving a system include developing new bus routes for a school district, improving the water quality of a lake, improving indoor air quality, developing a curriculum, and redesigning furniture.

Score: _____