

## Final Product Rubric – A1a

### Problem Solving Rubric - A1a Designing a Physical Product, Service, or 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
<b>Design Ideas</b>	Provides complex ideas for the design of the product, service, or system.	Provides creative ideas for the design of the product, service, or system.	Provides limited ideas for the design of the product, service, or system.
<b>Choices</b>	Provides comprehensive justification of the functional, aesthetic, social, economic, or environmental choices made in finalizing the design.	Provides ample justification for the functional, aesthetic, social, economic, or environmental choices made in finalizing the design.	Lacks justification of choices made in finalizing the design.
<b>Establishing Evaluation Criteria</b>	<p>Uses extensive insight in establishing criteria for evaluating the product, service, or system.</p> <p>Uses sophisticated designs to enhance the product.</p>	<p>Uses some insight in establishing criteria for evaluating the product, service, or system.</p> <p>Uses adequate designs to enhance the product.</p>	<p>Lacks criteria for evaluating the product, service, or system.</p> <p>Lacks appropriate designs to enhance the product, service or system.</p>
<b>Implementation</b>	<p>Provides a detailed implementation plan for the product, service, or system.</p> <p>Uses creative modifications to conform to established standards or regulations regarding quality or safety.</p>	<p>Provides evidence of some planning for the implementation of the product, service, or system.</p> <p>Uses adequate modifications to conform to established standards or regulations regarding quality or safety.</p>	<p>Does not provide evidence of any planning for the implementation of the product, service, or system.</p> <p>Lacks evidence of any modifications to conform to established standards or regulations.</p>
<b>Product Evaluation</b>	Establishes a product, service, or system that precisely corresponds to the design proposal.	Establishes a product, service, or system that nearly corresponds to the design proposal.	Establishes a product, service, or system that does not correspond to the design proposal.

Examples of physical products include building an engine, creating a bulletin board, creating a work of art, landscaping projects, and automotive projects.

Score: \_\_\_\_\_