

Postcards into Space Design Rubric

School Name: _____

Grade: _____

Reviewer: _____

Engineering Design	Excellent 8 pts	Good 6 pts	Fair 4 pts	Poor 1 pts
Design	The design elements are clearly stated, and all constraints are clearly listed	The design elements and constraints can be found but are not clearly stated at the beginning	Either the design elements or the constraints are missing	Both the design elements and constraints are absent
Brainstorming	Clear examples of brainstorming and research on the design are shown.	Some examples of brainstorming and research are at least present in the presentation.	Examples of Brainstorming or research is limited.	Brainstorming and research are not clearly shown.
Design Prototype	A clear 3-d model can be shown. Final product is very close to original design presented.	A 3-d model is shown but is not close to original design. Final product resembles drawing.	The 3-d model or the drawing is not clear or does not resemble final product.	3-d model and/or drawing is missing. Final product has no resemblance to original design.
Build Prototype	Documentation of build process is present throughout the project. Changes in design are thoroughly noted	Documentation of build process is incomplete but present. Changes in design are noted but incomplete.	Documentation of build process is weak but present. Changes in design process are not clearly noted.	Build process is not documented. Changes in design are not notated.
Test prototype	There is collected or visual data showing that the product works and meets all constraints. If redesign is necessary, it is clearly notated and followed	Collected or visual data that the product works have been run but not clearly detailed. If redesign is necessary, it has not been clearly notated.	There is limited evidence of product testing. Redesigns have happened without documentation.	There is no clear examples of product testing or redesign.
Presentation Final product	The presentation clearly demonstrates the product and the process. All team members play a part in the demonstration process	Final product is presented. The presentation addresses the product and the process. All members do not play key roles in presentation	The presentation weakly addresses either the final product or the process. Significant lack of presentation from one or more team members	Final product is not presented or has severe fatal flaws. Presentation is missing product and process demonstration. One person presents whole presentation.

Artistic Representation	Excellent 8 pts	Good 6 pts	Fair 4 pts	Poor 1 pts
Theme	A definite theme is apparent in the design. An efficient and/or sophisticated means is employed to present the project theme.	A definite theme is apparent in the design.	The theme is not readily apparent and requires explanation or thought and observation to discern.	Only minimal understanding of theme is demonstrated by the designers, or the theme is not present in the design.
Variety of materials	Thought has been given as to what materials, how many materials, were used in the prototype design. Intentional choices and decision making was used in the final design.	Different types of materials were used in the design, the designers provided only some information on the choices they made and why.	Different types of materials were utilized but the designers provided no information on the choices they made and why.	Only one type of material was used.
Contrast and Emphasis	<p>The design catches the viewer's attention using both emphasis and contrast well.</p> <p>Emphasis: The designer makes one area stand out by contrasting it with another area. The area is different in size, color, texture, shape, etc. ...</p> <p>Contrast: The designer uses contrast in the arrangement. Opposite elements such as light vs dark, rough vs smooth, large vs small are seen in the design.</p>	<p>The design catches the viewer's attention using either emphasis or contrast in a limited fashion.</p> <p>Emphasis: The designer makes one area stand out by contrasting it with another area. The area is different in size, color, texture, shape, etc. ...</p> <p>Contrast: The designer uses contrast in the arrangement. Opposite elements such as light vs dark, rough vs smooth, large vs small are seen in the design.</p>	<p>The design catches the viewer's attention using either emphasis or contrast only.</p> <p>Emphasis: The designer makes one area stand out by contrasting it with another area. The area is different in size, color, texture, shape, etc. ...</p> <p>Contrast: The designer uses contrast in the arrangement. Opposite elements such as light vs dark, rough vs small are seen in the design.</p>	The designer does not catch the viewers attention. Both emphasis and contrast are missing.

Variety in design	The designer is extremely successful at placing different visual elements next to one another to provide variety. Straight lines next to curvy lines; non-geometric shapes among geometric shapes; bright colors next to dull colors.	The designer includes different visual elements next to one another to provide variety. Straight lines next to curvy lines; non-geometric shapes among geometric shapes; bright colors next to dull colors.	There is some attempt at placing visual elements next to one another to provide variety. Straight lines next to curvy lines; non-geometric shapes among geometric shapes; bright colors next to dull colors.	There is no attempt at placing visual elements next to one another to provide variety. Straight lines next to curvy lines; non-geometric shapes among geometric shapes; bright colors next to dull colors.
Construction	This piece is very well constructed and sturdy. The adhesive used does not show or is incorporated in the final design. The adhesive methods are suitable for materials employed	This piece is well constructed and sturdy. Some adhesive does show and/or is only partially incorporated in the final design. The adhesive methods are acceptable for materials employed.	For the most part the piece is well-constructed. However, there is some concern that it will withstand display and/or the manner of adhesion is messy or distracting. There are some areas that may need reinforcement.	Little attempt has been made to create a sturdy piece and/or manner of construction is extremely messy and haphazard.
Logos	The Logo's used clearly represents the school and all the various programs related to the competition. The design and/or reproduction of the logos is clear and of a high quality.	The Logo's used adequately represents the school and all the various programs related to the competition. The design and/or reproduction of the logos is clear.	The Logo's used represents the school and a most of the various programs related to the competition. The design and/or reproduction of the logos is unclear or poorly displayed.	The Logos are absent or does not represent the school and all various programs related to the competition. The design and/or reproduction of the logos is poorly done.

Engineering Design Total: _____

Artistic Design Total: _____

Provided Postcard Samples
from school (4 points): _____

TOTAL SCORE: _____