

Name:

Date:

Class:

How to Create a Scientific Poster/ Video Instructional Sheet

A poster is a critical part of your overall presentation. This is how the judges will get most of their information about the design process and final product. Posters should be able to stand on their own, include photos/charts/tables/graphs with minimal text. The reader can follow design process from beginning to end by reading the poster. Add math/science concepts to bolster the design – this is a scientific poster after all!

POSTER SET UP:

1. Use Google Slides to make the poster – this is ONE SLIDE ONLY!
 - Select “new”
 - Go to File and select “page set up”
 - Select “custom” from drop-down menu
 - Set poster size to 48 inches wide by 36 inches high
 - Share this with the team - use your Gateway email account
2. Font - minimum of 26 pts
3. Suggestion – light background, and dark text
4. Suggestion – Use text boxes for each section of the poster. This will be easier to move around.
5. Suggestion – 3 column format

Parts to include in the poster:

- A. Title and group name (NO individual names to avoid bias from the judges) school name, hyperlink to video - center the title.
- B. Introduction - State the problem, why this project is relevant? interesting? Who would benefit from using the product you have designed?
- C. Medical Must-Haves and User Wants – numbered or bulleted list
- D. Product specifications - this should include measurements, dimensions and materials to be used and why you selected these materials.
- E. Sketches (4-2-5) - take a pic of this worksheet and upload. Add a line explaining what this is.
- F. Concept Screening & Selection - includes the criteria or the “must-haves” for the design. Take a pic of this worksheet and upload to poster. Highlight the “winning” design that became the prototype.
- G. Prototypes - pictures and rationale explaining the science and math that supports the design. Add labels, arrows, etc.
- H. Testing - explain tests that were done or could be done to measure design capabilities
- I. Future Work/Economic Analysis - modifications that will need to be done to minimize cost, size, improve functionality, etc.

HYPERLINK TO VIDEO:

- A video is an excellent way to get the main points of your project across quickly and concisely. It allows you to present your ideas in a unique way. Include possible moving parts of the prototype and testing.
- The video should be 3 minutes maximum and every group member should be represented – no faces!
- Videos can contain pictures, animations or classroom footage.
- Upload the video as “Unlisted” to a YouTube account.
- Save the link of your video so it can be added as a hyperlink in your poster.

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Suggested division of labor:

Groups of 3

Group member one: title & specifications & prototypes

Group member two: introduction & concept generation & prototyping testing

Group member three: must-haves and wants & concept selection & future work/economic analysis

Groups of 4

Group member one: introduction & concept selection

Group member two: must-haves and wants, prototype pictures with annotation/captions

Group member three: product specifications & testing

Group member four: concept generation & future work/economic analysis

***Someone needs to do title

Groups of 5

Group member one: introduction & explanation of 4-2-5 under chart

Group member two: must-haves and wants & prototype pics/annotation

Group member three: product specifications & concept generation chart (4-2-5)

Group member four: testing results & captions beneath prototype pics

Group member five: future work & economic analysis