

Design Exploration What do you know about this topic?

- State the problem you want to solve
- In terms of engineering, why is it a problem?

Design Concepts

- Describe at least 3 variables that affect this problem
- Indicate which variable you plan to manipulate and optimize

Engineering Design

- Paragraph format
- Third person, past tense
- Make reproducible, but don't include things that the reader already knows (I gathered materials, I labeled samples, I recorded data)

Title (usually the problem)

Use as large a font size as possible but make sure it fits in the middle panel

Blank space (no names on posters for WH, added later if needed for EXPO)

Figures and Tables

- Number sequentially
- Label axes, columns and rows
- Include units

Other Guidelines:

- Font sizes:
 - Title 200-300 point
 - Section headings: 100 point
 - Text: 20-30 point (fill the space)
- Use an adhesive (not staples or pins) to attach pieces to board

Results

- Written summary of raw data
- Refer to all figures and tables by number
- Highlight trends, but do not include interpretation (*The temp increased over time is fine, but the temperature increased because... is not okay*)

Interpretation

- Highlight and explain trends in data
- What does the data mean?
- Describe potential errors in your experiment

Evaluation

- Did your solution solve your problem
- Why or why not?

Future Plans

- Identifies potential errors and proposes possible solutions
- Discusses design weaknesses and trade-offs
- What would you do next if you were to continue this work?

References (if used)

- Check with teacher to see if there is a required format