Rube Goldberg Machine Design Project

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Outline

• Introduction (Design objectives and criteria)
• Analysis
  - Discuss top candidates generated in the brainstorming
  - Factors that led to the prototype design
• Prototype Construction
  - Prototype design
  - Performance at failure and score
• Performance Results and Discussion
• Conclusion and Recommendations
Introduction

This section briefly lays out the problem and the requirements (i.e. specifications and constraints). It should end with a goals/objectives statement. After this section, the reader should know in broad terms what you were trying to do and your goal in doing this.
Design Alternatives

- Discuss top candidates generated in the brainstorming
- Factors that led to the prototype design
Prototype Design

This section presents details on prototype design. Here you need drawings that describe the exact shape of the cuts, angles, etc., How will the pieces be joined together? In what order will they be assembled?
Prototype Performance and Score

- Discuss performance at failure, and its score. Discuss whether it failed as you expected.

Drawings, plots or equation
Conclusion & Recommendations

- Bring out the major points you feel worth emphasis. Discuss what you would recommend to be done next to make further improvements to the design.
- This section should be a brief, bottom-line summary. You generally don’t bring anything new into a conclusion. Instead, this simply restates the key points from the body of the report.