ENGINEERING PROPOSAL TEMPLATE: CATAPULT REDESIGN

INTRODUCTION:

* What is the purpose of the catapult project?
* Why is improving the catapult important?

Write your response:

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PROPOSED MODIFICATION:

* What part of the catapult do you want to change?
* How will you change it (add diagram if needed)?
* What performance issue are you trying to improve?

Describe your idea:

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*(Attach or draw a sketch below)*

*[Diagram Space below]*

SCIENTIFIC JUSTIFICATION:

* Use physics concepts (e.g., force, motion, energy) to explain why this change will help.
* Include math reasoning or class data that supports your idea.

 Explain your reasoning:

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REAL-WORLD ENGINEERING CONNECTION:

* How do real engineers test and defend new designs?
* Why is data and analysis important in engineering?

Make the connection:

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CONCLUSION:

* Restate your proposed change.
* Summarize how and why it will improve the catapult.

 Wrap it up:

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PEER REVIEW CHECKLIST (TO BE COMPLETED BY A CLASSMATE)

Reviewer Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Clear introduction and purpose

☐ Specific, realistic modification described

☐ Uses scientific reasoning and data

☐ Connects to real-world engineering

☐ Conclusion summarizes key points

One thing I liked:

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💡 One suggestion to improve:

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